

# IMC-310I-SFP

## 10G Standalone Hardened Ethernet Media Converter



### Features

- Provides 1xRJ45 to 1xSFP/SFP+ fiber port
- Copper port interface supports 10G/5G/2.5G/1G/100M BASE-T
- Copper port provide full/half duplex flow control
- Supports store and forward transmission
- Supports MDI/MDI-X, auto-negotiation
- Supports AC/DC power input dual mode power input
- Provides flexible mounting: DIN-Rail and panel mount
- Link Fault Pass-Through (LFPT) for troubleshooting
- Fiber port distance from 400m up to 80km

### Introduction

IMC-310I-SFP 10G Medial Converter is equipped with one 10G/5G/2.5G/1G/100M BASE-T auto-negotiation port and one 10GBASE-X SFP+ Slot. IMC-310I-SFP supports 10x Gigabit Ethernet media converter from copper 10GBASE-T to fiber multi-mode or single-mode. It utilizes a 10GBASE-SR or 10GBASE-LR SFP+ transceiver installed in the SFP+ slot to extend distances to servers, switches, and patch panels. IMC-310I-SFP supports transmission distance from 400m up to 80km to facilitate 10G equipment and device deployment.

### Specifications

#### Communications

- **Standard**
  - IEEE 802.3u 100BASE-TX
  - IEEE 802.3ab 1000BASE-T
  - IEEE 802.3bz 2.5G/5GBASE-T
  - IEEE 802.3ae 10Gbps Ethernet
  - IEEE 802.3x full-duplex flow control
- **LAN**
  - 10G/5G/2.5G/1G/100BASE-T
- **Jumbo Frame**
  - 16Kbytes
- **Network Cable**
  - 10G/5G/2.5G/1G/100M BASE-T
    - 10G - Cat 6A/ Cat 7
    - 5G - Cat 6/ Cat 6A/ Cat 7
    - 1G/2.5G- Cat 5e/Cat 6 /Cat 6A / Cat 7
    - 100M- Cat 5e or above
  - 10GBASE-SR/LR/ER/ZR
    - 50/125µm or 62.5/125µm , multi-mode fiber optic cable, up to 400m
    - 9/125µm single-mode fiber optic cable, up to 80km

#### Interface

- **Connectors**
  - 1 x RJ45
  - 1 x SFP+ port
  - 1 x 4-pin terminal block
  - 1 x DC power jack
- **LED Indicators**
  - Copper 10G (green), 1G (orange)
  - SFP 10G(Green)

#### Power

- **DC Power Input**
  - 12/24/48V (7-50V<sub>DC</sub>)
- **AC Power Input**
  - 100 - 240V<sub>AC</sub>, 50-60Hz, 0.48A
- **Power Consumption**
  - AC Max.: 5W
  - DC Max.: 4W

#### Mechanism

- **Dimensions (W x H x D)** 109.2 x 22.9 x 101.6 mm (4.3" x 0.9" x 4")

#### Environment

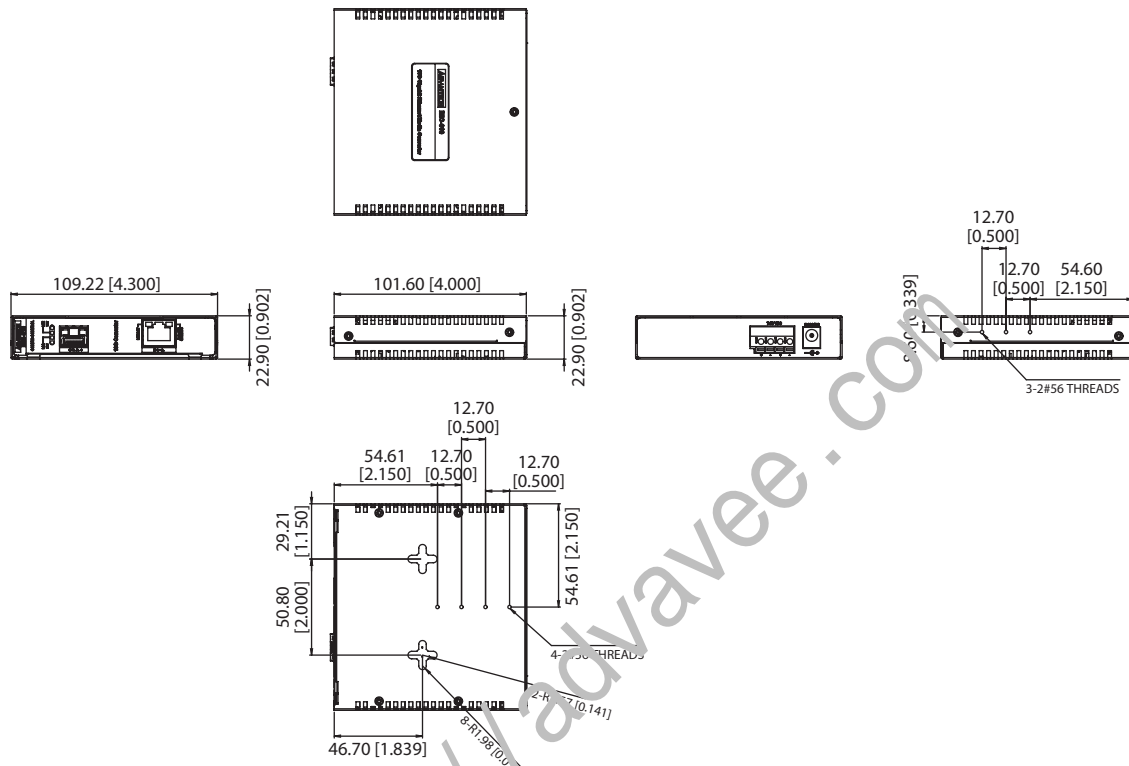
- **Operating Temperature** 0 ~ 50°C (32 ~ 122°F) (AC power input)  
-20 ~ 60°C (-4 ~ 140°F) (DC power input)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **Weight** 0.35 kgw

#### Certification

- **EMI** CE , FCC Class A
- **EMS** EN61000-4-2  
EN61000-4-3  
EN61000-4-4  
EN61000-4-5  
EN61000-4-6  
EN61000-4-8  
EN61000-4-11
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

**Dimensions**

Unit: mm [inch]



**Panel Cut-out Dimensions: 109.2 x 22.9 x 101.6 mm (4.3" x 0.9" x 4.0")**

**Ordering Information**

- IMC-310I-SFP-A 10G Ethernet Media Converter

**Accessories**

Part Number	Speed	Wavelength	Optical Mode	Distance	Connector	Sensitivity (dB)	Operating Temp.
SFP-XMM-LC-400	10 Gbps	850nm	Multi-mode	400 m	LC	-11.1	0 to +70 °C (+32 to +158 °F)
SFP-XMM-LCI-400	10 Gbps	850nm	Multi-mode	400 m	LC	-11.1	-40 to +85 °C (-40 to +185 °F)
SFP-XSM-LC-10K	10 Gbps	1310nm	Single-mode	10 km	LC	-12.6	0 to +70 °C (+32 to +158 °F)
SFP-XSM-LCI-10K	10 Gbps	1310nm	Single-mode	10 km	LC	-12.6	-40 to +85 °C (-40 to +185 °F)
SFP-XSM-LC-20K	10 Gbps	1310nm	Single-mode	20 km	LC	-12.6	0 to +70 °C (+32 to +158 °F)
SFP-XSM-LCI-20K	10 Gbps	1310nm	Single-mode	20 km	LC	-12.6	-40 to +85 °C (-40 to +185 °F)
SFP-XSM-LC-40K	10 Gbps	1310nm	Single-mode	40 km	LC	-12.6	0 to +70 °C (+32 to +158 °F)
SFP-XSM-LCI-40K	10 Gbps	1310nm	Single-mode	40 km	LC	-12.6	-40 to +85 °C (-40 to +185 °F)
SFP-XSM5-LC-40K	10 Gbps	1550nm	Single-mode	40 km	LC	-16	0 to +70 °C (+32 to +158 °F)
SFP-XSM5-LCI-40K	10 Gbps	1550nm	Single-mode	40 km	LC	-16	-40 to +85 °C (-40 to +185 °F)
SFP-XSM-LC-80K	10 Gbps	1550nm	Single-mode	80 km	LC	-23	0 to +70 °C (+32 to +158 °F)
SFP-XSM-LCI-80K	10 Gbps	1550nm	Single-mode	80 km	LC	-23	-40 to +85 °C (-40 to +185 °F)
SFP-XSS-10KTX-LC	10 Gbps	1270T/1330R	Single-mode	10 km	LC	-15.5	0 to +70 °C (+32 to +158 °F)
SFP-XSS-10KRX-LC	10 Gbps	1330T/1270R	Single-mode	10 km	LC	-15.5	0 to +70 °C (+32 to +158 °F)
SFP-XSS-40KTX-LC	10 Gbps	1270T/1330R	Single-mode	40 km	LC	-15.5	0 to +70 °C (+32 to +158 °F)
SFP-XSS-40KRX-LC	10 Gbps	1330T/1270R	Single-mode	40 km	LC	-15.5	0 to +70 °C (+32 to +158 °F)
SFP-10GTXI	1G /2.5G /5G/ 10 Gbps	-	-	100 m	RJ45	-	-40 to +85 °C (-40 to +185 °F)
SFP-10GTX	1G /2.5G /5G/ 10 Gbps	-	-	30 m -10G 50 m -5G/2.5G 100 m - 1G	RJ45	-	0 to +70 °C (+32 to +158 °F)