

# IMC-111FB / IMC-111PB

➤ **Industrial mini type Ethernet to fiber media converter with 1x10/100Base-T(X) to 1x100Base-FX fiber / 1x100Base-FX SFP socket**

## Features

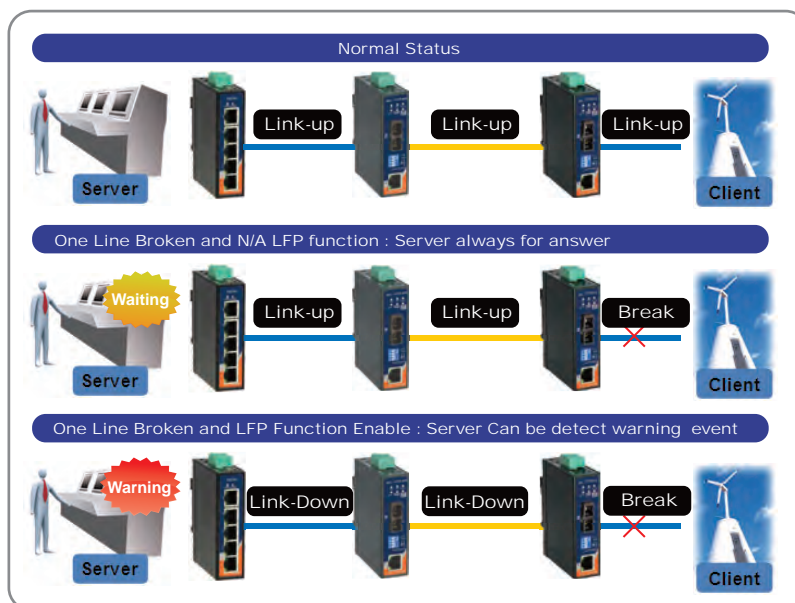
- Support 1 port 10/100Base-T(X) auto-negotiation and auto-MDI/MDI-X
- Support Ethernet to fiber or Ethernet to SFP port
- Support **LFP (Link Fault Pass-through)** function
- Support full/half duplex operation
- Support store and forward transmission
- Provide DIP-Switch to set functions
- High reliability and rigid IP-30 housing
- DIN-Rail and wall mounting enabled



## Introduction

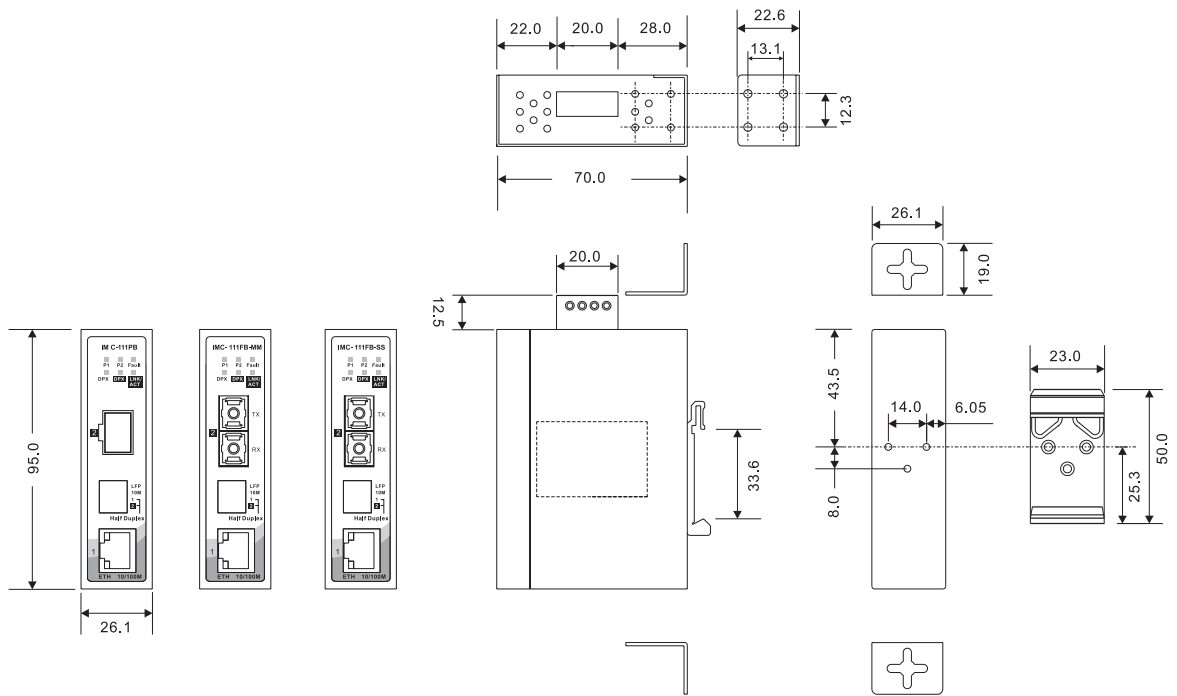
IMC-111 series are the cost-effective solution for the conversion between 10/100Base-T(X) and 100Base-FX interface, as they allow you to extend communication distance by optical fiber. IMC-111 series support MDI/MDIX auto detection, so you don't need to use crossover wires. IMC-111 series have wide operating temperature range from -40 ~ 70°C and have dual power inputs, each accepting a wide voltage range from 12 ~ 48 VDC. Hence IMC-111 series are suitable for harsh operating environments.

IMC-111 series also support the **LFP (Link Fault Pass-through)** feature. When one side of the link fails, the other side continues transmitting packets and waits for a response that never arrives from the disconnected side. Use the DIP-Switch to enable the LFP function, and then IMC-111 series will force the link to shutdown as soon as noticed that the other link has failed, giving the application software a chance to react to the situation. Therefore the IMC-111 series are reliable media converters that can satisfy most demand of different operating environments.



Connections of Media Converter and LFP function

## Dimensions



(Unit=mm)

## Specifications

ORing Media Converter Model		IMC-111FB-MM	IMC-111FB-SS	IMC-111PB
<b>Physical Ports</b>				
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX		1	1	1
<b>Fiber Ports</b>				
Fiber Ports Specifications	Fiber Ports Number	1	1	-
	Fiber Ports Standard	100Base - FX	100Base - FX	-
	Fiber Mode	Multi-mode	Single-mode	-
	Fiber Diameter (µm)	62.5/125 µm 50/125 µm	9/125 µm	-
	Fiber Optical Connector	SC	SC	-
	Typical Distance (km)	2 km	30 km	-
	Wavelength (nm)	1310 nm	1310 nm	-
	Max. Output Optical Power (dBm)	-14 dBm	-8 dBm	-
	Min. Output Optical Power (dBm)	-23.5 dBm	-15 dBm	-
	Max. Input Optical Power (Saturation)	0 dBm	0 dBm	-
	Min. Input Optical Power (Sensitivity)	-31 dBm	-34 dBm	-
	Link Budget (dB)	7.5 dB	19 dB	-
100Base-FX SFP port		-	-	1



## Ordering Information

IMC-1 **A** **B** **C** **B** - **DD** - **EE**

Code Definition	10/100Base-T(X) Port Number	Fiber Port Number	Fiber Port Type	Fiber Optical Mode	Fiber Optical Connector
<b>Option</b>	- <b>1</b> : 1 port	- <b>1</b> : 1 port	- <b>F</b> : 100Base-FX - <b>P</b> : 100Base-FX SFP	- <b>MM</b> : Multi-mode - <b>SS</b> : Single-mode	- <b>SC</b> : SC Connector

	Model Name	Description
Available Model	IMC-111FB-MM-SC	Industrial mini type Ethernet to fiber media converter with 1x10/100Base-T(X) and 1x100Base-FX, multi-mode, 2km/1310nm, SC connector
	IMC-111FB-SS-SC	Industrial min type Ethernet to fiber media converter with 1x10/100Base-T(X) and 1x100Base-FX, single-mode, 30km/1310nm, SC connector
	IMC-111PB	Industrial mini type Ethernet to fiber media converter with 1x10/100Base-T(X) and 1x100Base-FX, SFP socket
<b>Packing List</b>		<b>Optional Accessories</b>
<ul style="list-style-type: none"> <li>• IMC-111FB / 111PB</li> <li>• DIN-Rail Kit</li> <li>• Wall-Mount Kit</li> <li>• Quick Installation Guide</li> </ul>		<ul style="list-style-type: none"> <li>• SFP100 series : 100Mbps SFP optical transceiver</li> <li>• DR-75 series : 75 Watts power supply</li> <li>• DR-45 series : 45 Watts power supply</li> <li>• DR-120 series : 120 Watts power supply</li> <li>• SDR-240-48, 240W DIN-Rail power supply</li> <li>• SDR-480-48, 480W DIN-Rail power supply</li> <li>• FPC series : Fiber Patch cord</li> </ul>