

Item	Industrial POE Media Converter
Series No.	IMC3100P
Description	10/100/1000Base-T with POE to 1000Base-X
	

### Overview

The IMC3100P series Industrial POE Media Converter is the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices, etc., which are installed 100m far from a Power over Ethernet switch. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af/at compliant) are supported, as the IMC3100P series can deliver a full 15.4W / 30W of power to the remote device.

The IMC3100P series is designed to extend the distance of a network by converting Giga Ethernet data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling.

The IMC3100P features a 1000Base-X fiber port and a 10/100/1000Base-T twisted-pair port. The fiber optic port features SC connector and operating distance from 550m to 120km depending on different Model. The twisted-pair port has an RJ-45 connector with a maximum distance of 100m.

IMC3100P-SFP features a 1000X SFP fiber Port and a 10/100/1000T twisted-pair port. The fiber optic port features a modular SFP slot for any kind of MSA-complaint pluggable 1.25Gbps SFP transceivers.

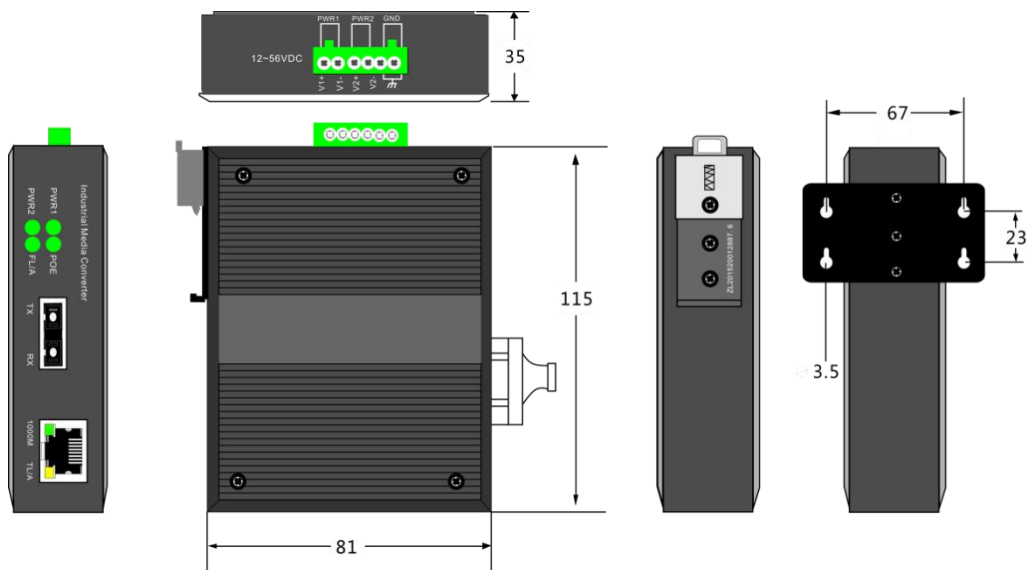
The small size and dual external power supply inputs of the IMC3100P series allows them to be used almost anywhere in harsh environmental conditions. Additionally, they can be installed by DIN-rail or wall-mount, allowing users to deploy any mix of network conversions required.

## Features

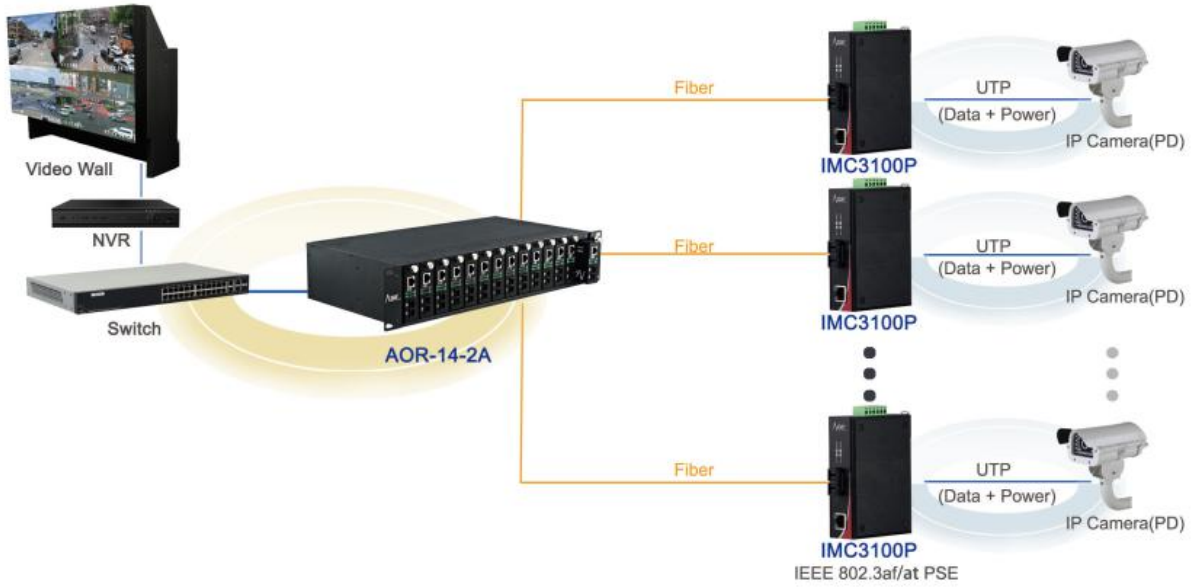
- UTP to fiber media converter
- IEEE 802.3af/at complaint
- RJ-45 port support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward switching architecture
- Support wide operating temperature (-40 °C ~ +85 °C)
- Wide-range redundant power design (12~56VDC)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provide EFT protection for Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall- Mounted Installation

## Structure

Unit: (mm)



## Applications



Technical Specifications

Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX standards IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree IEEE802.3af/at POE
Performance	Processing Type: Store and Forward Back Bandwidth: 4.0Gbps MAC Address Size: 1Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Frame: 1632bytes
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 1.25G Connector: SC as default, FC/ST/SFP Slot Optional Distance: MMF 550/2km, SMF 20/40/80/100/120km, Bi-di: 20/40/80/100/120km
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A: ON=Fiber Connected; Active=Data Transmitting TL/A: ON=Copper Connected; Active= Data Transmitting 1000M: ON=1000M Data Rate Transmitting POE: ON=Power Working; Off=No Power
Power	Input Voltage: 12~56 VDC, redundant power inputs Power Consumption: ≤5W PoE Budget: 15.4W(PoE) 30W(PoE+) Protection: Overload Current; Reverse Polarity Connector: Terminal Block
Environment	Operating Temperature: -40 °C ~ +85 °C Storage Temperature: -40 °C ~ +95 °C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Housing: IP40 Protection, Aluminium alloy Installation: DIN-rail mounting, wall mounting(with optional kit) Dimension: 115*81*35mm(device); 220*175*73mm(packing) Weight: 0.30kg(device); 0.43kg(device with packing)

### Standards and Certifications

EMC	CE
EMI	FCC Part 15 CLASS A
EMS	IEC 61000-4-2 Level 4 (8K/15K)
	IEC 61000-4-3 Level 3 (10V/m)
	IEC 61000-4-4 Level 3 (1V/2V)
	IEC 61000-4-5 Level 3 (4KV/2KV)
	IEC 61000-4-6 Level 3 (10V/m)
	IEC 61000-4-8 Level 4 (30A/m)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32 0.5m
Vibration	IEC 60068-2-6
Railway Traffic	EN50121-4

### Order Information

Model No.	Description
IMC3100P-SFP	10/100/1000M POE,SFP Slot
IMC3100P-M05	10/100/1000M POE,MMF,850nm,SC,550m
IMC3100P-S20	10/100/1000M POE,SMF,1310nm,SC,20km
IMC3100P-S40	10/100/1000M POE,SMF,1310nm,SC,40km
IMC3100P-A20	10/100/1000M POE,Bi-di,TX1310/RX1550nm,SC,20km
IMC3100P-B20	10/100/1000M POE,Bi-di,TX1550/RX1310nm,SC,20km
IMC3100P-A40	10/100/1000M POE,Bi-di,X1310/RX1550nm,SC,40km
IMC3100P-B40	10/100/1000M POE,Bi-di,TX1550/RX1310nm,SC,40km
Note: 1. Power supply provided by user or ordered additionally 2. SC connector as default, FC/ST as request	