

IMC1100P

Industrial Media Converter

10/100Base-T with POE to 100Base-X



Overview

The IMC1100P 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, which are installed 100m far from a Power over Ethernet converter. 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 Power Sourcing Equipment (PSE) device can deliver a full 15.4W / 30W of power to the remote PD device.

The IMC1100P features 1 x 100Base-FX fiber port and 1 x 10/100Base-TX twisted-pair port. The fiber optic port features SC connector and operating distance from 2km to 120km depending on different Model. The twisted-pair port has 1 x RJ-45 connector with a maximum operating distance of 100m.

The IMC1100P Industrial Ethernet Media Converter is designed to stand up to extreme temperature, surges, vibrations, and shocks found in industrial automation, government, military, oil & gas, mining and outdoor applications, such as traffic management, oil and gas pipelines.

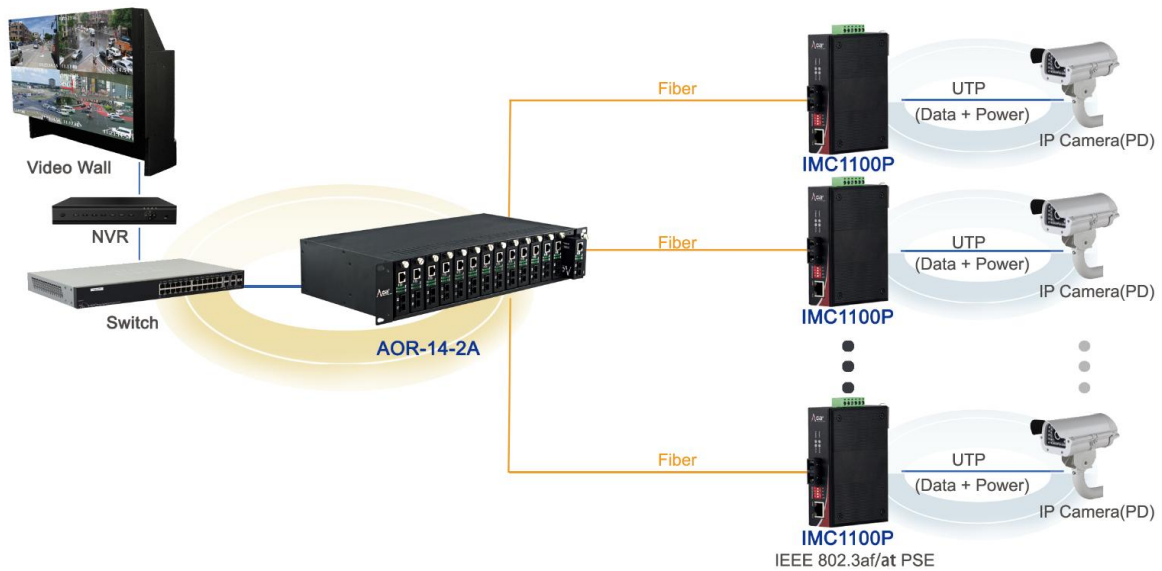
The IMC1100P series enables real-time deterministic network operation, requires no configuration and will instantly operate as soon as you power it up. Additionally, they can be installed by DIN-rail or wall-mounted, allowing users to deploy any mix of network conversions required.

Features

- UTP with POE to fiber media converter
- IEEE 802.3af/at compliant
- RJ45 support auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward & Cut-thought optional
- Built-in LFP (Link-fault-pass-through) function

- Jumbo frame: 9kbytes
- Support wide operating temperature (-40 °C ~ +85 °C)
- Wide-range redundant power design (48~56VDC)
- 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

Applications



DIP Switch

DIP Switch Define	Dip1	Dip2	Dip3	Dip4
Modified Cut-through Mode	ON	ON	N/C	OFF
Converter Mode	ON	OFF		OFF
Cut-through	OFF	ON		OFF
Store and forward mode	OFF	OFF		OFF
LFP Enable	OFF	OFF		ON

Technical Specifications

Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree IEEE802.3af/at POE
Performance	Processing Type: Store and Forward, Cut-through Back Bandwidth: 0.4Gbps MAC Address Size: 2Kbit Packet Buffer Size: 1Mbit Time Delay: <10us Frame: 9Kbytes
Copper Port	Data Rate: 10/100M Connector: RJ45 Distance: 100m
Fiber Port	Data Rate: 155M Connector: SC as default, FC/ST Optional Distance: MMF=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 100M: ON=100M; OFF=10M POE: ON=Power Working; Off=No Power
Power	Input Voltage: 48~56VDC, 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; Aluminum 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)

Order Information

Model	Description
IMC1100P-SFP	10/100M POE,SFP Slot
IMC1100P-M02	10/100M POE,MMF,1310nm,SC,2km
IMC1100P-S20	10/100M POE,SMF,1310nm,SC,20km
IMC1100P-A20	10/100M POE,Bi-di,TX1310/RX1550nm,SC,20km
IMC1100P-B20	10/100M POE,Bi-di,TX1550/RX1310nm,SC,20km
Note: AC/DC power supply purchased separately	

Related Products

Model	Description
DIN-rail Power supply	
MDR-60-48	DIN-rail 60W, 85~264Vac input, 48V1.25A output
SFP Module	
SFP-M1585L-02I	155M MM 850nm LC 550m DDM, Industrial Grade
SFP-M1513L-02I	155M MM 1310nm LC 2km DDM, Industrial Grade
SFP-S1513L-20I	155M SM 1310nm LC 20km DDM, Industrial Grade
SFP-S1535L-20I	155M SM TX1310/RX1550nm LC 20km DDM, Industrial Grade
SFP-S1553L-20I	155M SM TX1550/RX1310nm LC 20km DDM, Industrial Grade
Long distance 40/60/80/100/120km is available	
Installation Accessories	
TK12	Wall-mounted kits, 118*18*16mm, ϕ 3.5mm L=12mm
A02	Side DIN-rail mounted kits, 72.7*70*8.5mm, ϕ 3.5mm L=6mm
CK01	Rack-mounted bracket with Din-rail, 483*215*130mm



TK12 Wall-mounted kits

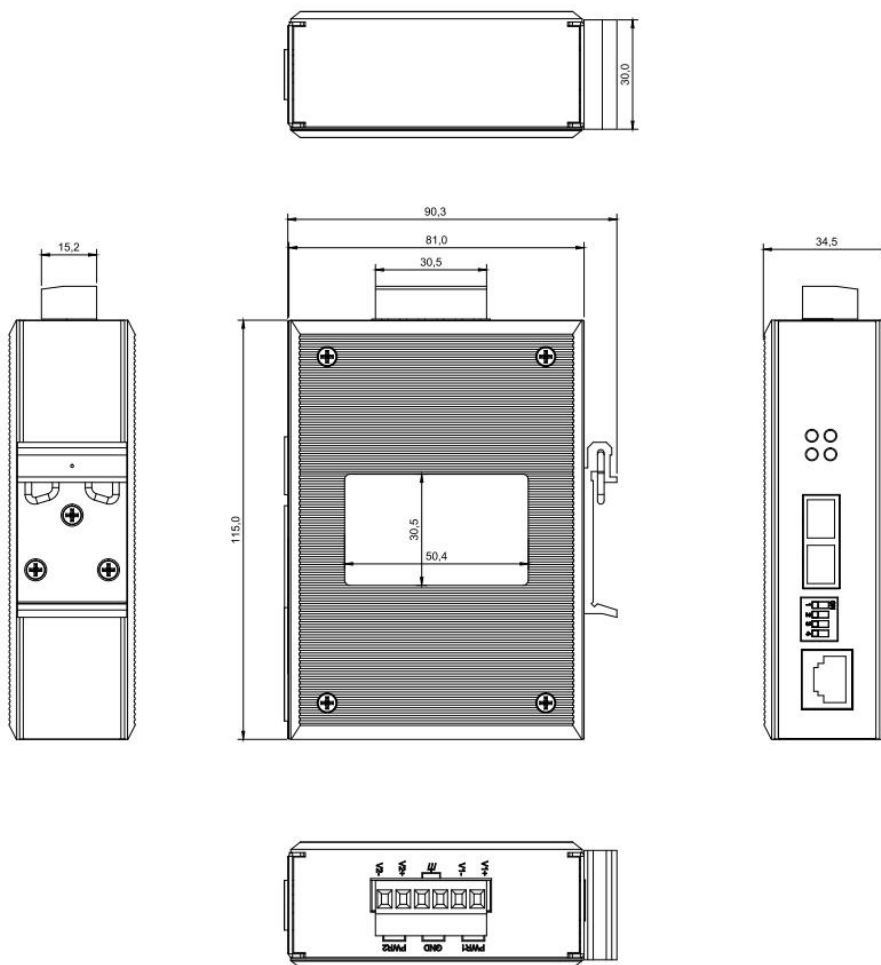


A02 Side DIN rail mounted kits



CK01 Rack-mounted bracket

Structure diagram (mm)



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