Item	Industrial POE Media Converter
Series No.	IMC1100P
Description	10/100Base-TX with POE to 100Base-FX

Overview

The IMC1100P 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, 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 complaint) are supported, as the IMC1100P series can deliver a full 15.4W / 30W of power to the remote device.

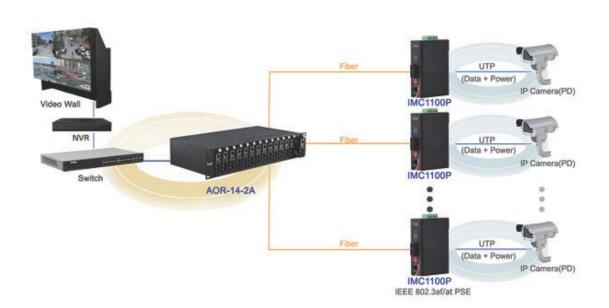
The IMC1100P series is designed to extend the distance of a network by converting Fast Ethernet data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling. It will operate in industrial grade temperature, used in traffic management, oil and gas pipelines, weather tracking, industrial and outdoor applications. Additionally, it can be installed by DIN-rail or wall-mount, allowing users to deploy any mix of network conversions required

The IMC1100P features a 100Base-FX fiber port and a 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 an RJ-45 connector with a maximum operating distance of 100m.

Many Backbone switch products now support the industry-standard IEEE802.1Q specification for VLANs that send extra-long data packets on the network. The IMC1100P series converters are fully compatible with these long packets, enabling them to be used in modern networks.

Features

- UTP with POE to fiber media converter
- IEEE 802.3af/at complaint
- 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
- Wide-range redundant power design (12~56VDC)
- Support wide operating temperature (-40 °C ~ +85 °C)
- 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



Application

Technical Specifications

Standards	IEEE802.3 10BaseT; IEEE802.3u 100BaseT(X)
	IEEE802.3x Flow control; IEEE802.1d Spanning Tree,
	IEEE802.1Q VLANs; IEEE 802.3af/at POE
Performance	Processing Type : Store and Forward, Cut-through
	MAC Table Size: 1Kbit
	Buffer Space: 288Kbit
	Time Delay: <150µs
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
Dip-switch	Dip1 ON + Dip2 ON = Modified Cut-through Mode
	Dip1 ON + Dip2 Off = Converter Mode
	Dip1 Off + Dip2 ON = Cut-through
	Dip1 Off + Dip2 off = Store and forward mode
	Dip4 ON = LFP Enable;
	Dip4 Off = LFP Disable
	PWR1: ON=Power Connected
	PWR2: ON= Power Connected
LED indicators	FL/A: ON=Fiber Connected; Active=Data Transmitting
LED Indicators	TL/A: ON=Copper Connected; Active= Data Transmitting
	100M: ON=100M Data Rate Transmitting
	POE: ON=Power Working; Off=No Power
Power	Input Voltage: 12~56 VDC, redundant power inputs
	Power Consumption: <5W (POE excluded)
	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, Wall-Mounted
	Dimension: 115*81*35mm
	Weight: 0.30kg

EMS Standards

IEC61000-4-2(ESD): +8KV (Contact Discharge), +15KV (Contact Discharge) IEC61000-4-3(RS): 10V/M(80-1000MHZ) IEC61000-4-4(EFT): power cables +4KV, signal cables +2KV IEC61000-4-5(Surge): power cables +4KV CM/+ 2KV DM, signal cables + 2KV IEC61000-4-6(RF coupling): 3V(10KHZ-150KHZ),10V(150KHZ-80MHZ) IEC61000-4-8(Power Frequency Magnetic Field): 100A/M COUNT 1000A/M 1S TO 3S IEC61000-4-12/18(Damped Oscillatory Wave): 2.5KV CM,1KV DM IEC61000-4-10(conducted disturbances): 30A/M IEC61000-4-16(common mode): 30V COUNT 300V, 1S IEC61000-6-2(Electromagnetic compatibility) IEC61850-3(electrical substation) IEEE1613 (electric power substations) EN50121-4(Rail Traffic)

Order Information

Model No.	Description
IMC1100P-M02	10/100M MMF,1310nm,SC,2km, with POE
IMC1100P-S20	10/100M SMF,1310nm,SC,20km, with POE
IMC1100P-S40	10/100M SMF,1310nm,SC,40km, with POE
IMC1100P-A20	10/100M Bi-di TX1310/RX1550nm,SC,20km, with POE
IMC1100P-B20	10/100M Bi-di TX1550/RX1310nm,SC,20km, with POE
IMC1100P-A40	10/100M Bi-di TX1310/RX1550nm,SC,40km, with POE
IMC1100P-B40	10/100M Bi-di TX1550/RX1310nm,SC,40km, with POE
Note:	

1. Power supply provided by user or ordered additionally

2. SC connector as default, FC/ST as request

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