Item	Industrial Media Converter
Series No.	IMC3100
Description	10/100/1000Base-T to 1000Base-FX

Overview

The IMC3100 series Industrial Media Converter 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 IMC3100 features a 1000Base-FX 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 operating distance of 100m.

IMC3100-F 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.

Many Backbone switch products now support the industry-standard IEEE802.1Q specification for VLANs that send extra-long data packets on the network. The IMC3100 series converters are fully compatible with these long packets, enabling them to be used in modern networks

The small size and dual external power supply inputs of the IMC3100 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
- 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 Mounting Installation
- Low power consumption

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,
	IEEE802.1Q VLANs
	Processing Type : Store and Forward,
Derfermenes	MAC Address table: 1Kbit
Performance	Buffer Space: 288Kbit
	Time Delay: <20µs
	Data Rate: 10/100/1000M
Copper Port	Connector: RJ45
	Distance: 100m
	Data Rate: 1.25G
	Connector: SC as default, FC/ST/SFP Slot Optional
Fiber Port	Distance: MMF 550m/2km,SMF 20/40/80/100/120km,
	Bi-di:20/40/80/100/120km
	PWR1: ON=Power Connected
	PWR2: ON= Power Connected
LED indicators	FL/A: ON=Fiber Connected; Active=Data Transmitting
	TL/A: ON=Copper Connected; Active= Data Transmitting
	1000M: ON=1000M Data Rate Transmitting
	Input Voltage: 12~56 VDC, redundant power inputs
	Power Consumption: <5W
Power	Protection: Overload Current; Reverse Polarity
	Connector: Terminal Block
	Operating Temperature: -40 °C ~ +85 °C
Environment	Storage Temperature: -40 °C ~ +95 °C
	Relative humidity: 5-95% (no condensation)
	Housing: IP40 Protection, Aluminum Alloy
Physical Characteristics	Installation: DIN-Rail , Wall-Mounted
	Dimension: 115*81*35mm
	Weight: 0.30kg
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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	
IMC3100-F	10/100/1000M,SFP Slot	
IMC3100-M05	10/100/1000M MMF,850nm,SC,550m	
IMC3100-M02	10/100/1000M MMF,1310nm,SC,2km	
IMC3100-S20	10/100/1000M SMF,1310nm,SC,20km	
IMC3100-S40	10/100/1000M SMF,1310nm,SC,40km	
IMC3100-A20	10/100/1000M Bi-di TX1310/RX1550nm,SC,20km	
IMC3100PB20	10/100/1000M Bi-di TX1550/RX1310nm,SC,20km	
IMC3100-A40	10/100/1000M Bi-di TX1310/RX1550nm,SC,40km	
IMC3100-B40	10/100/1000M 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		

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