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Mini Industrial Gigabit Ethernet Media Converter Data Sheet

Overview

The Mini Industrial Gigabit Ethernet media converter that provides cost effective, entry-level media conversion between 1x10/100/1000Base-TX ports and 1000Base-FX ports. With its fixed configuration, deployments are just plug-and-play, and with it is small size, it is ideal for locations where space is limited.

Being able to operate under temperatures ranging from -30°C to 75 °C and is with IP40 rugged case to make sure the continuous operation in harsh environments such as transportation, factories, outdoors and places where extremely low or high temperatures can be experienced.

Benefits

- Compliant with IEEE 802.3u/802.3z/802.3ab
- Choice of SC/ST/LC SFP Connectors for MM & SM
- Support auto negotiation and auto MDI-MDIX
- LED Indicators Monitor Network Activity Easily
- Support full/half duplex mode
- Support IEEE 802.3x Flow Control
- Robust IP40 Aluminum Metal Enclosure for Use in Industrial Environments
- DIP switch to set different configurations
- Plug-and-play, Standalone or Chassis Based

Specification

Models	IMC-GA1F1T	IMC-GA1SC1T-SM	IMC-GA1SC1T-MM	IMC-GA1D1TM
Copper Port (RJ45)	1x 10/100/1000Base-T RJ45			
Fiber Port	1x 1000Base-X SFP	1x 1000Base-X SC		1x 1000Base-X ST
Transmission Speed	10/100Mbps for Half/Full Duplex 1000Mbps for Full Duplex			
Cable Type (Fiber)	Multimode 50/125μm, 62.5/125μm Single-mode 9/125μm	Single-mode 9/125μm	Multimode 50/125μm, 62.5/125μm	
Cable Type (Copper)	Cat5/5e/6			
Jumbo Frame	12K			
LED Indicators	FX/SPD, FX/LINK, PWR, LINK/ACT, SPD			
DIP Switch	LFP/ALS FX Reset FX Speed	LFP Function		
Power Consumption	Full-load<3W			
External Power	AC 100V~240V			
Input Power	DC 9-56V, 0.5/0.25A			
Dimensions (HxWxD)	1.02"x 1.54"x 4.65" (26x39x118mm)			

Standards	IEEE802.3u, IEEE802.3z, IEEE802.3ab, 1000Base-TX/FX
Operating Temp	-30°C to 75°C
Storage Temp	-40°C to 85°C
Relative Humidity	5% to 95%, Non-condensing
Latency	1us
MTBF	>300,000Hrs
Warranty	Two Years

DIP Switch Setting

Model: IMC-GA1F1T

NO	Function	Status	Description
1	LFP Function ①	OFF	Disable
		ON	Enable
2	ALS Function (Only for SFP)	OFF	Disable
		ON	Enable
3	FX Reset ②	OFF	Disable
		ON	Enable
4	FX Speed Set	OFF	FX 1000M
		ON	FX 100M/1000M

① LFP and ALS are started at the same time, LFP is valid, ALS does not work.

② FX Reset: if enable, when fx link down, power will shut down, a few second and power up.

Attention: 1X 9 module only with one dip: LFP



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