

Mini Industrial Gigabit Ethernet Media Converter Datasheet

Industrial Network Long Distance Connection Solution



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 its 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/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

	IMC-GA1F1T	IMC-GA1SC1T-SM	IMC-GA1SC1T-MM
Cooper Port (RJ45)	1x 10/100/1000Base-T RJ45	1x 10/100/1000Base-T RJ45	1x 10/100/1000Base-T RJ45
Fiber Port	1x 1000Base-X SFP	1x 1000Base-X SC	
Transmission Speed	10/100Mbps for Half/Full Duplex 1000Mbps for Full Duplex		
Cable Type (Fiber)	Multimode 50/125 μ m, 62.5/125 μ m Single-mode 9/125 μ m	Single-mode 9/125 μ m	Multimode 50/125 μ m, 62.5/125 μ m
Cable Type (Cooper)	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 (Hx Wx D)	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	1 μ s		

Specification

	IMC-GA1F1T	IMC-GA1SC1T-SM	IMC-GA1SC1T-MM
MTBF	>100,000Hrs		
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: 1X9 module only with one dip: LFP



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