Megatel Industries Corporation

664 Wagner Court
North Wales, PA 19454, USA
TEL : 1-610-239-8812   FAX : 1-215-699-3348
sales@megatelindustries.com   www.megatelindustries.com

Industrial Unmanaged Gigabit Media Converter

IMC-1000-SFP

Descriptions

IMC-1000-SFP Industrial Converter has 1-Port 10/100/1000Base-TX and 1-Port 1000Base-FX SFP Slot that provides stable and reliable Ethernet transmission with dual power inputs design. IMC-1000-SFP can offer redundant mechanisms for critical applications that need power always-on connections. It can also operate either at standard operating temperature range from -40 to 75°C. Housed in rugged DIN rail or wall mountable IP40 enclosures, this converter is perfect choice for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and is also suitable for many military and utility project applications where environmental conditions exceed commercial product specifications.

It is positioned in the broadband network intervention market, to offer and realize Ethernet data exchange, convergence and long-distance optical transmission with efficient bandwidth and reliable fiber optic network solutions for users. The industrial converter complies with various characteristics such as mini size, no fan, low power consumption, high reliability and stability, and easy to maintain.

Features

- 1x10/100/1000Base-TX RJ45 ports, 1x1000Base-FX SFP port
- Support Auto-MDIX, and full/half duplex self-negotiation mode
- Support single/dual fiber transmission
- Support 10K bytes giant frame, compatible with various extension protocol
- 8K MAC address table
- Support IEEE802.3az energy efficient Ethernet technology
- Support IPv6 Protocol
- Electric 4KV surge protection, easy to use in outdoor environment

Specifications

Physical Port	
RJ45 port and speed	1x10/100/1000Base-TX
Fiber port and speed	1x1000Base-FX SFP Slot
Parameters	
Standards	IEEE 802.3 for 10BaseT
	IEEE 802.3u for 100BaseT(X) and 100BaseFX
	IEEE 802.3ab for 1000BaseT(X)
	IEEE 802.3z for 1000BaseSX/LX/LH/X/ZX
	IEEE 802.3x for flow control
Packet buffer	1Mbits
Jumbo Frame	10K Bytes
MAC address table	8K
Data Processing	Store-and-Forward (full/half duplex mode)
Exchange property	Delay time: < 7µs Backplane bandwidth: 1Gbps
LED Indicator	
Power	Connect-always ON
RJ45	Link/Act: connect-always; data transmitting-Blinking
Fiber	Link/Act: connect-always; data exchange-Blinking
Power Information	
Power access mode	Phoenix terminal, DC seat
Redundant power input	DC 9-56V
Overload protection	Yes
Power reverse	Support
Power consumption	<5W
Physical Property	
Protection grade	IP40 Aluminum case
Cooling mode	Passive cooling, fanless design
Dimensions	120mm x 90mm x 35mm (W x D x H)
Installation mode	DIN Rail or wall-mount
Net Weight	350g
Working Environment	
Operating Temperature	-40°C ~ +75°C
Operating Humidity	5%~90% non-condensing
Storage Temperature	-40°C ~ +85°C
Warranty	
MTBF	500,000 hours
Defects Liability Period	5 year warranty, lifetime technical support
Certification Standards	
EMI	FCC Part15 Class A
EMC/EMS	CE-EMC/LVD, RoHS EN61000-4-2 (ESD): LEVEL 4 IEC 6100-4-2 (EFT): LEVEL 4 IEC 6100-4-2 (Surge): LEVEL 4 IEC 6100-4-2 (CS)：LEVEL 3 IEC 61000-4-2(PFMP): LEVEL 5 EN61000-4-3 (RS): LEVEL 4
Shock	IEC60068-2-27
Drop or Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety grade	EN60950-1, UL60950-1, CSA C22.2 No.60950-1, UL508