



1*GE SFP +1*GE Copper Industrial Media Converter
Size: 102 x 77 x 32mm

Overview

MES-301-1S is an industrial-grade Gigabit Media Converter series. designed for the conversion or extension of network transmission between 10Base-T/100Base-TX/1000Base-TX and 1000Base-X SFP fiber. They are complied with CE EMC and LVD standards, with a wide operating temperature which is -40~+80, great toughness to adapt the harsh environments and can be easily placed in a compact control box. The rail mounting features, wide-temperature operation, and IP40 protection-grade housing and LED indicators make the MES-301-1S the plug-and-play industrial-grade devices, providing users with a reliable and convenient solution for Ethernet device networking.

Features

- Using high quality photoelectric integrated module to provide good optical and electrical characteristics
- Reliable data transmission and long life span
- Supports 10/100/1000M auto-negotiation, full/half duplex mode, and MDI/MDI-X auto-detection.
- Internal storage and forwarding mechanism, support multiple protocols
- Comply with industrial-grade operation standards, MTBF is more than 300,000 hours
- Working power supply: DC 12~52V, providing reverse polarity protection
- Supports SC/LC SFP Optical transceiver
- Lightning surge impact protection of power supply: 5000

Specification

Interface and Indicators	
Copper Ports	1* 10/100/1000Mbps RJ45 copper ports, Full/half duplex mode, Auto MDI/MDI-X connection
Fiber Ports	1* 1000Base-X SFP
LED Indicators	Power indicator: PWR
	SFP: green light means 1000M, blinking means the data is in sending and receiving, the light is off means it is in Link-down status
	Copper: yellow light on is Link/Act, off is Link-down, blinking is Link-up and receiving data; green light on means the network speed is 1000M, green light is not on means that the network speed is 10M or 100M
Ethernet Standards	
Standards	IEEE802.3-10BaseT
	IEEE802.3u-100BaseTX/FX
	IEEE802.3ab-1000BASE-T
	IEEE 802.3z-1000Base-X
	IEEE802.3x-Flow Control
Power Parameters	
Input Voltage	DC12V~52V
Power Connector	Terminal block
Reverse Polarity Protection	Supported
Power	<1.5W
Switch Properties	
Transmission Mode	Store-and-forward(full wire-speed)
MAC Table Size	8K
Packet Buffer Size	1Mbits
Switching Capacity	6G
Jumbo Frame	10Kbytes
Switching Latency	<10μs
Environment Limits	
Operating Temperature	-40~+80°C(-40~180°F)
Storage Temperature	-40~+85°C(-40~185°F)
Ambient Relative Humidity	5%~95% (non-condensing)
Physical Characteristics	
Shell	IP40 protection grade, aluminum alloy
Size	102mm(L) x 77mm(W) x 32mm(H)
Installation Methods	Din rail mounting
Cooling Method	Fanless natural cooling
Weight	0.27kg/set

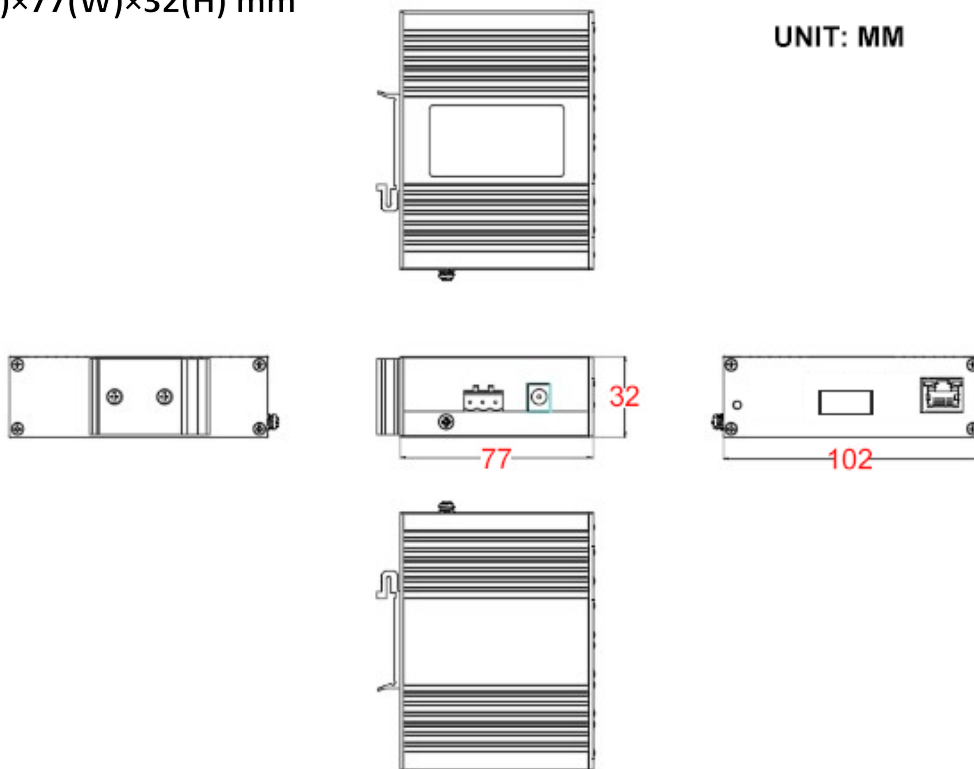
Industrial Standards

EMI	FCC Part 15 Subpart B Class A, EN 55022 Class A
EMS	IEC(EN)61000-4-2(ESD) : Contact: ±8kV, Air: ±12kV
	IEC(EN)61000-4-3(RS) : 10V/m(80~1000MHz)
	IEC(EN)61000-4-4(EFT) : Ethernet Port: ±4kV CM//±2kV DM
	IEC(EN)61000-4-5(Surge): Ethernet Port: ±4kV CM//±2kV DM
	IEC(EN)61000-4-6(Conducted RF immunity): 3V(10kHz~150kHz),10V(150kHz~80MHz)
Shock	IEC(EN)61000-4-16(Conducted common mode disturbances immunity) : 30V cont. 300V, 1s
	IEC(EN)61000-4-8
Free Fall	IEC 60068-2-27
Vibration	IEC 60068-2-32
MTBF	IEC 60068-2-6
Warranty Period	300,000 hours
	3 years

Outlook and Dimension

Size: 102(L)×77(W)×32(H) mm

UNIT: MM



Ordering Information

Model	Description
MES-301-1S	10-port Unmanaged Industrial Ethernet Switch 8*10/100/1000M RJ45 Copper 2*GE SFP Fiber (optical transceivers are not included) Power supply: DC12~52V Wide operating temperature:-40~80°C IP40, Aluminum shell DIN rail mounting