iFC TECHNOLOGY

MES-100G-10S: 2*GE SFP Fiber+8*GE Copper Unmanaged Industrial Ethernet Switch
Size: 143.7*103.8*47.7 mm, DIN Rail-mounted

Overwiew

The MES-100G-10S is an unmanaged industrial Ethernet switch, that supports 2 Gigabit fiber ports and 8 Gigabit copper ports. This ethernet switch is designed to operate in a wide temperature range from -40°C to +80°C and has a strong firmness that can adapt to a variety of harsh environments, and can also be very easily placed in a compact control box. The installation characteristics, wide temperature operation and the shell and LED indicator make this device a plug and play industrial equipment, providing a reliable and convenient networking solution for users' Ethernet equipment.

Features

✧ Using high quality photoelectric integrated module to provide good optical and electrical characteristics
✧ Reliable data transmission and long life span
✧ Support for full-duplex or half-duplex mode, with automatic negotiation capability
✧ The network port supports fully automatic cross identification
✧ Internal storage and forwarding mechanism, support multiple protocols
✧ In line with the industrial-grade operating standards, MBTF in more than 300,000 hours
✧ Working power supply: DC 12~52V, providing reverse polarity protection
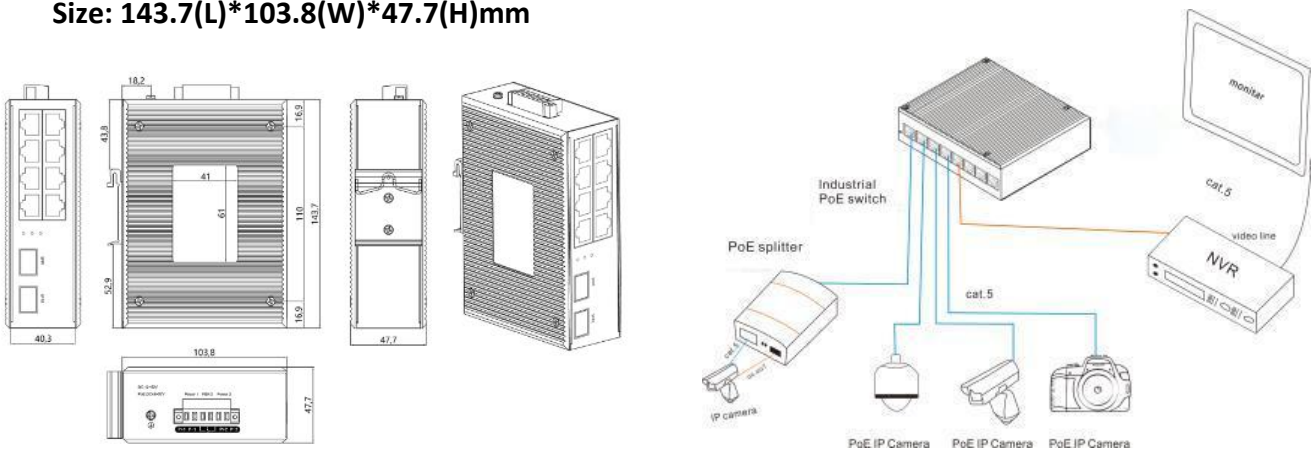✧ Lightningsurge impact protection of power supply: 5000A (8/20μs)

Specificstion

Interface and Indicators

Service Ports	8*10/100/1000Mbps RJ45 copper ports, Full/half duplex mode, Auto MDI/MDI-X connection
	2*1000BaseFX SFP slots
LED Indicators	Power: PWR
	Link/Act for copper and SFP ports

Ethernet Standards

Standards	IEEE802.3-10BaseT
	IEEE802.3i 10Base-T
	IEEE802.3u-100BaseTX/100Base-FX
	IEEE802.3z-1000BaseX
	IEEE802.3ab-1000BaseT
	IEEE802.3x-flow control

Power Parameters

Input Voltage	DC12V~52V (dual power redundancy)
Power Connecter	Phoenix type connector
Dual Power Redundancy	Supported
Overcurrent Protection	Current limit 4.0A
Reverse Polarity Protection	Supported

Switch Properties

Transmission Mode	Store-and-forward
MAC Table Size	8K
Packet Buffer Size	2Mbit
Backplane Bandwidth	20G
Switching Latency	<10μs
Power	<8W

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

IP Rating	IP40, aluminum shell
Dimensions	143.7mm*103.8mm*47.7mm
Weight	0.64Kg

Installation	DIN-rail mounting
	Wall mounting
Cooling Method	Fanless natural cooling
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: ±2kV CM//±1kV DM ;
	IEC(EN)61000-4-5(Surge): Ethernet Port: ±2kV CM//±1kV DM ;
	IEC(EN)61000-4-6(Conducted RF immunity) : 3V(10kHz~150kHz),10V(150kHz~80MHz)
	IEC(EN)61000-4-16(Conducted common mode disturbances immunity) : 30V cont. 300V, 1s
	IEC(EN)61000-4-8
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF	300,000 hours
Warranty Period	3 years

Outlook and Dimension

Size: 143.7(L)*103.8(W)*47.7(H)mm

Ordering Information

Model	Description
MES-100G-10S	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℃; IP40, Aluminum shell; DIN rail mounting