

MES2103-F

3-Port Layer 2 Unmanaged Embedded Industrial Ethernet Switch



- 1x100Base-FX port (multi/single-mode, SC/FC/ST connector), 2x10/100Base-T(X) ports (RJ45 connector)
- 100Base-FX port supports SC/FC/ST, single-mode/multimode, wavelengths and transmission distances optional
- 10/100Base-T(X) ports support full/half-duplex and auto MDI/MDI-X, plug-and-play
- Support DC9~24V power input, compliant with intrinsic safety circuit design standards
- Operating temperature range of -40°C to +85°C













Product Description

MES2103-F is a 3-port unmanaged embedded industrial Ethernet switch designed for industrial communication network applications. It complies with intrinsic safety design requirements. This product series supports 1×100 Base-FX port and $2 \times 10/100$ Base-T(X) ports, with single DC9~24V power input. The power supply features protection against reverse connection, soft start, overcurrent, and overvoltage protection. It is designed for embedded installation, catering to the needs of various network environments.

The hardware is designed with fanless, intrinsically safe, and wide temperature range considerations. It is compact in size, uses industrial-grade components, and operates within a temperature range of -40 $^{\circ}$ C to +85 $^{\circ}$ C. The power supply complies with intrinsic safety circuit design standards and has undergone rigorous safety and EMC testing to meet the demanding requirements of industrial environment applications.

This product can be widely applied in various fields, including industrial automation, comprehensive energy, intelligent transportation, smart cities, and intelligent mining.





Switch Capability			
Processing Type	Store-and-Forward		
Backplane Bandwidth	1Gbps		
Buffer Size	96KB		
MAC Table Size	2K		
Interface			
100M Fiber Port	1*100Base-FX fiber port (SC/FC/ST, single-mode/multi-mode, wavelengths and transmission distances are optional)		
100M Copper Port	2*10/100Base-T(X) auto-sensing RJ45 ports, support full-duplex/half-duplex and auto MDI/MDI-X		
Status LED	Power indicator, interface indicator, support external indication signal		
Power Supply			
Input Voltage	DC9~24V		
Power Consumption	<1.29W@DC12V		
Connection	2-pin with 5.08mm spacing terminal connectors		
Physical Characteristic	CS CS		
Dimensions	76×66×13.6 mm		
Installations	Embedded		
Weight	49g		
Working Environment			
Operating Temp	-40°C~+85°C		
Storage Temp	-40°C~+85°C		
Relative Humidity	5%~95% (non-condensing)		
Industry Standard			

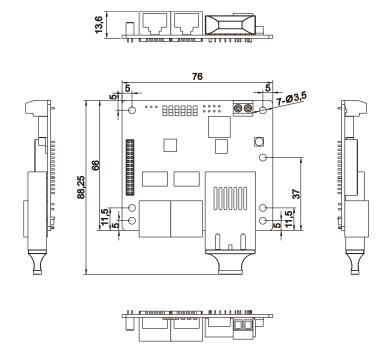


☑ = Specification

EMC	IEC 61000-4-2 (ESD): Contact discharge ±8kV, Air discharge ±15kV IEC 61000-4-5 (Surge): Power supply and network port: Common mode ±2kV, Differential mode ±2kV IEC 61000-4-4 (EFT): Power supply: ±2kV; Communication port: ±2kV
Certification	CE, FCC, RoHS



Unit: mm







Ordering Information

Standard Model	100M Fiber Port	10/100M Copper Port	Input Voltage
MES2103-F(M/S)	1	2	DC9~24V



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