CES3103 Series

3-Port Gigabit Layer 2 Embedded Industrial Ethernet Switch

- 3x1G copper ports or 1G fiber port + 2x1G copper ports
- Fiber port supports single-mode/multi-mode, SC/FC/ST, wavelength, and transmission distance are optional
- Copper port supports 10/100/1000M, full/half duplex, auto MDI/MDI-X
- Support Jumbo frame transmission, the maximum frame length is 9216 bytes
- Support DC6~32V power input, supports anti-reverse connection, pre-charge, overcurrent and overvoltage protection, and complies with intrinsically safe circuit design standards
- -40°C to +85°C operating temperature range

Product Description

The CES3103 series is a 3-port Layer 2 full-Gigabit unmanaged embedded industrial Ethernet switch engineered for industrial communication networks where intrinsic safety and compact deployment are required. It supports flexible interface combinations, including three copper ports or mixed fiber-and-copper configurations, allowing it to adapt to different field networking scenarios. Designed for embedded installation, the switch operates on a single DC 6–32V power input and integrates reverse polarity protection, pre-charge functionality, and overcurrent and overvoltage protection to ensure stable and secure operation. Each Gigabit Ethernet port supports auto-sensing, full- or half-duplex transmission, and automatic MDI/MDI-X detection, delivering smooth, reliable, and high-speed data transmission for industrial automation systems.

Built with an intrinsically safe circuit design and premium industrial-grade components, the CES3103 series features a compact structure and wide-temperature capability, supporting operation from -40°C to +85°C. The power system complies with intrinsic safety standards and has passed stringent safety and EMC testing,

ensuring dependable performance in harsh and sensitive industrial environments. With its robust design and stable communication performance, the CES3103 series is well suited for applications in industrial automation, integrated energy systems, intelligent transportation, smart cities, and smart mining deployments.

Technical Specifications

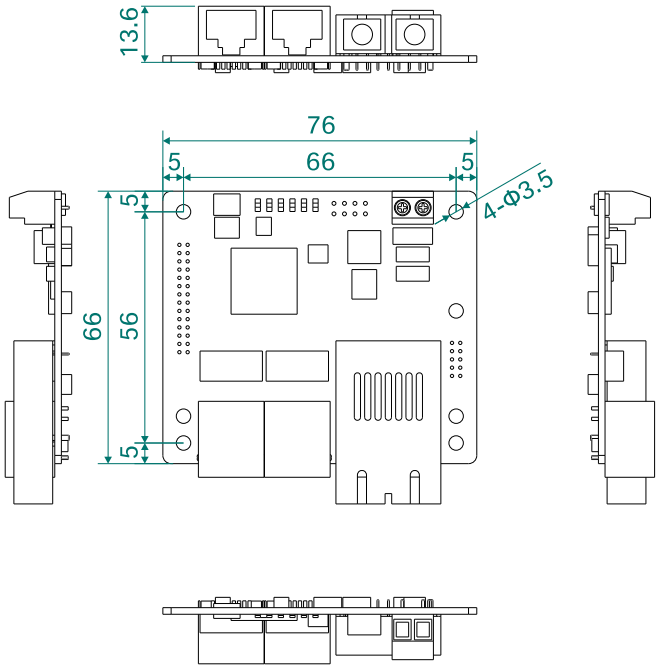
Switching	
Processing Type	Store-and-Forward
Backplane Bandwidth	14G
Buffer Size	2Mbit
Jumbo Frame	9216Byte
MAC table address	2K
Interface	
1G Fiber Port	1*1000Base-X fiber port optional, support SC /FC/ST connector, single mode / multimode optional
1G Copper Port	3/2*10/100/1000Base-T(X) auto-sensing RJ45 ports, support full/half duplex, auto MDI/MDI-X connection
Status LED	Power indicator, interface indicator, support indicator outside lead
Power Supply	
Input Voltage	DC6~32V
Power Consumption	< 1.2W@DC12V, < 1.4W@DC12V (1F Model)
Connection	2-position 5.08mm spacing wiring terminals
Overcurrent Protection	Anti-reverse connection, pre-charge, overcurrent protection, overvoltage protection
Physical Characteristics	
Dimensions	76×66×13.6 mm (connectors excluded)
Installations	Embedded installation

Technical Specifications

Weight	About 0.1kg
Working Environment	
Operating Temp	-40°C to +85°C
Storage Temp	-40°C to +85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-5(Surge): Level 2 IEC 61000-4-4(EFT): Level 3
Certification	CE, FCC, RoHS

Dimensions

Unit: mm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Ordering Information

Standard Model	1G Fiber Port	1G Copper Port	Input Voltage
CES3103-GF(S/M)-2GT	1	2	DC6~32V
CES3103-3GT	/	3	

Contact Us

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