

CES7108-4GF-2F

8-Port L2 Gigabit Managed Embedded Industrial Ethernet Switch



- 4 x 1G SFP ports, 2 x 100M fiber ports, 2 x 100M copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP for network redundancy
- Support DC9~24V power input, in line with intrinsically safe circuit design standards
- -40°C to +85°C operating temperature range

Product Description

The CES7108-4GF-2F is a Layer 2 Gigabit managed embedded industrial Ethernet switch designed for reliable and secure communication in demanding industrial environments. It provides a flexible port configuration with four Gigabit fiber ports, two 100Mbps fiber ports, and two 100Mbps copper ports, supporting diverse field device connections. Powered by a single DC 9–24V input, the switch features an intrinsically safe design with wide voltage and temperature tolerance. Built with industrial-grade components, it supports operation from -40°C to +85°C and complies with intrinsically safe design requirements. Its compact embedded installation design makes it well suited for space-constrained industrial sites while ensuring stable and efficient data transmission.

The CES7108-4GF-2F supports web-based management and a rich set of industrial networking protocols to enhance network performance, reliability, and security in complex deployments. It supports redundancy and control mechanisms such as MW-Ring, ERPS, and STP/RSTP, along with VLAN, QoS, static aggregation, IGMP Snooping, GMRP, and comprehensive security features including 802.1X authentication, ACL, and port mirroring. Integrated network diagnostics, alarm functions, and online firmware upgrades simplify maintenance and lifecycle management. Having passed rigorous functional, temperature, safety, and EMC testing, this switch delivers dependable performance in harsh environments and is widely used in integrated energy systems, smart cities, rail transit, intelligent transportation, smart factories, and industrial automation applications.

Product Features

- Support storm suppression of broadcast, multicast and unknown unicast packets, support broadcast and multicast data packet storm detection, prevent broadcast storm
- Support static link aggregation, which can increase transmission bandwidth, improve link reliability and realize network load sharing
- Support 802.1QVLAN, provide Access, Trunk, Hybrid interfaces to easily divide multiple broadcast domains, enhance network security
- Support MAC address table and aging time limit, static unicast/multicast MAC address and interface binding to ensure the use of legitimate users
- Support GMRP, IGMP Snooping and other multicast protocols to reduce the broadcast of multicast data in the network and save network resources
- Support LLDP link layer discovery protocol, obtain LLDP neighbor device information, monitor link status, facilitate topology management and fault location
- Support ERPS Ethernet multi-ring protection technology, provide multi-ring networking, perform link backup, achieve rapid convergence, and improve network stability
- Support RSTP spanning tree protocol, compatible STP protocol can eliminate network loops and improve network reliability
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restriction
- Support SNMPv1/v2c, information query, information modification and troubleshooting can be performed through the MIB network management system to achieve centralized management
- Support QoS service quality, so that voice, video and important data are transmitted first in network devices to solve network congestion
- Support ACL access control list, filter the specified protocol packets based on source/destination IP and MAC address
- Support 802.1X port authentication, identity authentication and access control for access users

Technical Specifications

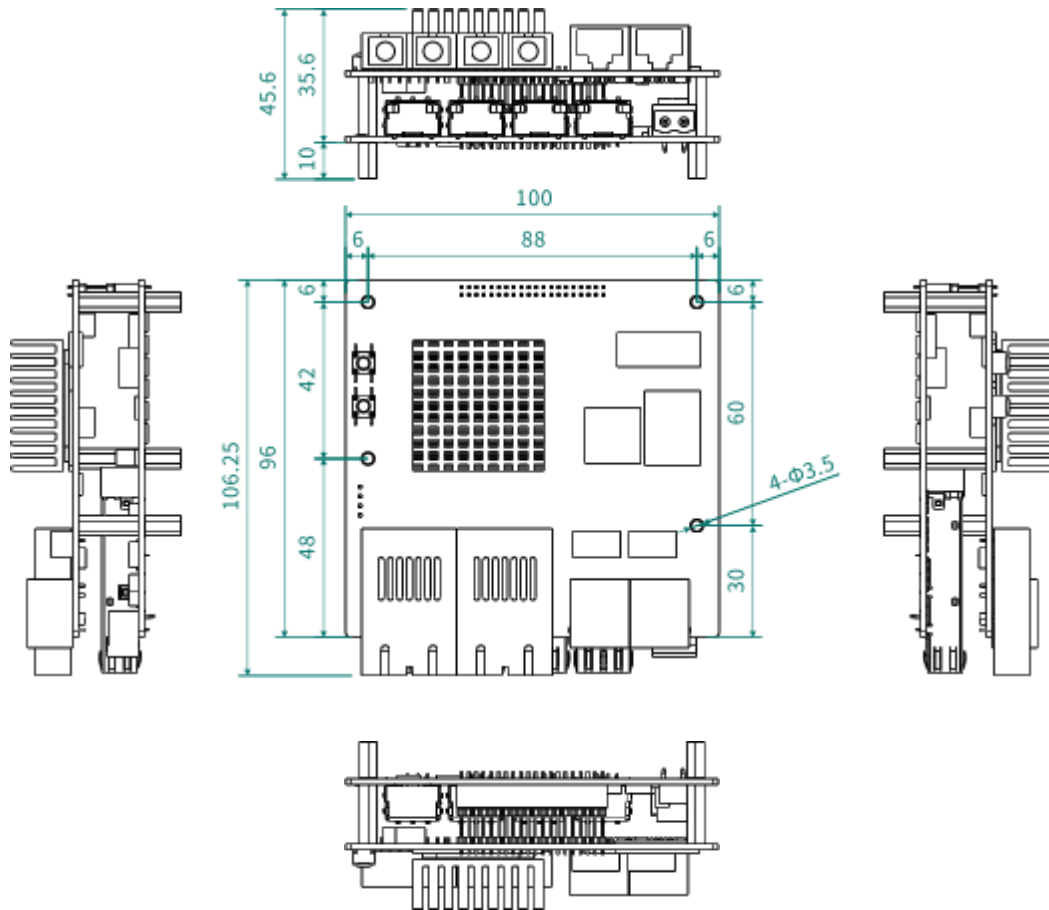
Software	
Switching	Support port configuration, port speed limit, storm suppression, static port aggregation Support 802.1QVLAN Support MAC address aging, static unicast MAC address binding

Redundancy	<p>Support MW-Ring proprietary ring network technology</p> <p>Support ERPS</p> <p>Support RSTP, compatible with STP</p>
Multicast	<p>Support IGMP Snooping</p> <p>Support GMRP</p> <p>Support static multicast MAC address binding</p>
Security	<p>Support WEB access control</p> <p>Support ACL, L2-L4 layer data filtering Supports 802.1X port authentication</p> <p>Support alarms, Email logs</p>
Maintenance and Management	<p>Support QoS, SNMP v1/v2c, LLDP</p> <p>Support port mirroring, Ping</p> <p>Support user rights management, system log, local time or network time synchronization</p> <p>Support online restart, factory reset, system upgrade, configuration file upload/download Support unified host computer software management</p>
Switching	
Switching	Store-and-forward
Backplane Bandwidth	12.8G
Buffer Size	3Mbit
MAC Address	8K
Interface	
Gigabit SFP Port	4 x 1000Base-X SFP ports
100M Fiber Port	2 x 100Base-FX fiber ports, SC/FC/ST connector, transmission distance supports 1310nm multi-mode dual-fiber 2km or 1310nm single-mode dual-fiber 20km optional (40/60/80/100km optional)
100M Copper Port	2x10/100Base-T(X) auto-sensing RJ45 copper ports, support full/half duplex, auto MDI/MDI-X
Button	Restart and factory reset

Indicators	Power indicator, operation indicator, fiber port indicator, copper port rate and connection status indicator, support indicator signal external lead
Power	
Power Input	DC9~24V, anti-reverse connection
Full Load Power Consumption	<8W@DC24V
Connection Method	2-position 5.08mm pitch terminal block
Mechanical	
Dimensions	100×96×35.6 mm (connectors excluded)
Installations	Embedded installation
Weight	0.27kg
Working Environment	
Operating Temp	-40°C to +85°C
Storage Tempe	-40°C to +85°C
Relative Humidity	5%~95% (no condensation)

Dimensions

Unit: mm (first angle projection)



Ordering Information

Standard Model	1G SFP Port	100M Fiber Port	100M Copper Port	Input Voltage
CES7108-4GF-2F(M/S)	4	2	2	DC9~24V



Contact Us

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