CES7106GBP-2GF-4GT

6-Port L2 Managed Embedded Industrial Gigabit Switch

- 2 x 1G SFP ports, 4 x 1G copper ports
- 2 fiber ports with bypass relay function, prevent link failure during power loss
- MW-Ring (recovery time < 20 ms @ 200 switches), STP/RSTP for network redundancy
- DC 9-24V power input
- -40°C to +75°C operating temperature range

Product Description

CES7106GBP-2GF-4GT is a Layer 2 Gigabit bypass managed embedded industrial Ethernet switch equipped with 2* Gigabit bypass fiber ports and 4* Gigabit Ethernet ports. The G5 and G6 fiber ports support bypass functionality, allowing traffic to pass through automatically in the event of power failure, effectively isolating faulty nodes and maintaining uninterrupted network communication. Based on a store-and-forward architecture, the switch provides strong bandwidth processing, automatic packet error detection, and low transmission failure rates, ensuring stable, efficient, and reliable Gigabit data transmission. Built with industrial-grade components and high-standard system design, it supports embedded installation and operates reliably across a wide temperature range of -40°C to +75°C, making it suitable for harsh industrial environments.

The CES7106GBP-2GF-4GT supports web-based management and a comprehensive set of network protocols, including MW-Ring v1/v2, STP/RSTP, VLAN, QoS, static aggregation, port mirroring, static multicast MAC binding, network diagnostics, alarms, and online firmware upgrades. These advanced features improve network reliability, performance, and security to meet the needs of complex industrial networks. The product has passed strict functional, high- and low-temperature, safety, and EMC tests, and is widely used in integrated energy systems, smart cities, rail transit, intelligent transportation, smart factories, and industrial automation applications.

Product Features

- Support broadcast, multicast, and unknown unicast packet egress and ingress rate limiting
- Support rate limiting for unknown unicast, unknown multicast, known multicast, and broadcast packets to suppress network storms
- Support QoS to prioritize voice, video, and critical data transmission within network devices, addressing network congestion
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy division of multiple broadcast domains, enhancing network security
- Support static multicast MAC address binding to reduce multicast data broadcasts across the network, thereby conserving network resources
- Support link static aggregation to increase transmission bandwidth and enhance link reliability
- Support alarm functions, including port disconnection and ring network status alerts.
- Support port mirroring to collect data from port ingress and egress for network detection and fault management
- Support RSTP and STP to eliminate network loops and enhance network reliability
- Support port statistics, including different types of data frames sent and received, and monitor port traffic
- Support visitors and administrators, with tiered management for users with different permissions;
- Support device online restart, factory reset and system upgrade

Technical Specifications

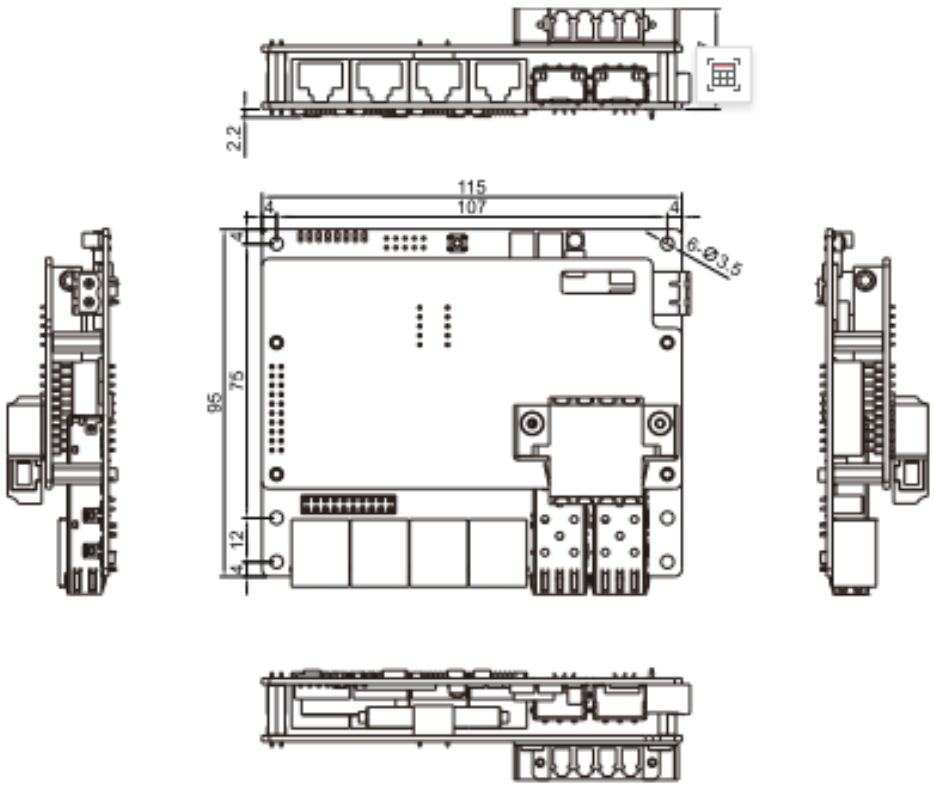
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, and port statistics Support port based VLAN, 802.1Q VLAN Support MAC address aging
Redundancy	Support MW-Ring proprietary ring network technology Support RSTP/STP
Multicast	Support static multicast MAC address binding

Management and Maintenance	Support static IP Support QoS, 802.1P/DSCP/Port Priority Mapping, absolute and relative priority control Support port mirroring, Ping, alarm Support user permission management, online restart, factory reset, system upgrade, and configuration file upload/download
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	14Gbps
Buffer Size	2Mbit
MAC Table Size	2K
Interface	
10G Fiber Port	2 x 1000Base-X SFP ports, with bypass relay, featuring a single-mode single-fiber LC interface with selectable transmission distances
1G Copper Port	4x 10/1001000Base-T(X) copper ports, support auto MDI/MDI-X connection, half and full duplex mode
Button	Restart and factory reset
Status LED	Power indicator, operation indicator, interface indicator, support external indicator
Power Supply	
Input Voltage	DC9-36V, anti-reverse connection
Power Consumption	< 4W@DC12V
Connection	5.08mm pitch 2-pin terminal blocks
Physical Characteristics	
Dimensions	115×95×27.7 mm
Installations	Embedded installation

Weight	0.2kg
Working Environment	
Operating Temp	-40°C to +75°C
Storage Temp	-40°C to +85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standards	
EMC	IEC 61000-4-5 (Surge): Level 2 IEC 61000-4-4 (EFT): Level 2

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G Copper Port	Power Voltage
CES7106GBP-2GF-4GT	2	4	DC9~24V

Contact Us

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