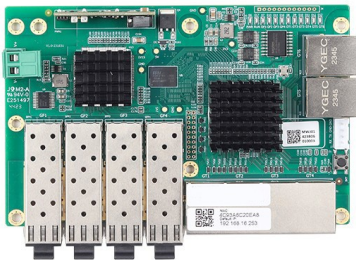


CES7110G-4GF-6GT

10-Port Layer 2 Gigabit Managed Embedded Industrial Ethernet Switch



- Support 4 x 1G SFP ports, 6 x 1G copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support DDM digital diagnostic monitoring, which can monitor the operating temperature, voltage, current, transmit and receive optical power and other parameters of DDM SFP optical modules
- Support DC9~24V power input, intrinsically safe circuit design
- -40 °C to +75 °C operating temperature range

Product Description

CES7110G-4GF-6GT is a 10-port Gigabit Layer 2 managed embedded industrial Ethernet switch. It features 4 × 1G fiber ports and 6 × 1G copper ports, supports a single DC 9–24V power input, and complies with intrinsic safety design requirements. The Gigabit switch employs a store-and-forward mechanism, providing robust bandwidth processing capability. It can automatically detect packet errors, reduce transmission failures, and easily support Gigabit networking, ensuring stable, reliable, and efficient data transmission.

Built with high-quality industrial-grade components and designed for embedded installation, this industrial Ethernet switch operates reliably in harsh environments with a working temperature range of -40°C to +75°C.

CES7110G-4GF-6GT supports web-based management and a variety of network protocols, including MW-Ring, ERPS, STP/RSTP, MRP, VLAN, SVL, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X authentication, TACACS+ client, IGMP Snooping, GMRP, ACL, WEB/TELNET/SSH access control, static aggregation, port mirroring, static MAC address binding, network diagnostics, loop detection, link diagnostics, DDM, email logs, alerts, SNTP client, system logs, and online system upgrades. These features enhance network performance, reliability, and security, meeting the demands of complex network environments.

The switch has passed rigorous functional, temperature, safety, and EMC tests, making it suitable for various industrial applications. It is widely applicable in fields like industrial automation, integrated energy, smart cities, intelligent transportation, and smart factories.

Product Features

- Support rate limiting for broadcast, unknown multicast, and unknown unicast frames, as well as broadcast and multicast storm detection to prevent network storms
- Support static link aggregation and LACP dynamic aggregation to increase bandwidth and improve link reliability
- Support port mirroring to capture ingress and egress traffic for network monitoring and fault management
- Support IEEE 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy segmentation of multiple broadcast domains, enhancing network security
- Support multicast protocols such as IGMP Snooping and GMRP to reduce multicast flooding and conserve network resources
- Support LLDP to obtain neighbor information, monitor link status, and simplify topology management and fault localization
- Support ERPS for multi-ring networking, link backup, and fast convergence to enhance network stability
- Support RSTP and compatibility with STP to eliminate network loops and improve network reliability
- Support MRP to enhance network reliability, with reconfiguration time ≤ 500 ms
- Support web management with HTTP/HTTPS access control and login IP address restrictions
- Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAPs, including State Grid-standard TRAPs and private TRAPs
- Support RMON remote monitoring for statistics and alarms on various frame types, enabling remote supervision and management by NMS platforms
- Support QoS to prioritize voice, video, and critical data through the device, helping to mitigate congestion
- Support ACL (Access Control List) with customizable filtering rules for multiple frame types, enabling packet filtering or rate limiting for specified traffic
- Support IEEE 802.1X port-based authentication, providing local and RADIUS-based user authentication
- Support TACACS+ client for authentication, authorization, and accounting (AAA), preventing unauthorized logins and strengthening system security
- Support loopback detection to prevent network loops and resulting network storms
- Support system log recording, download, and categorization, with output to web pages, a syslog host, and the console for viewing

Technical Specifications

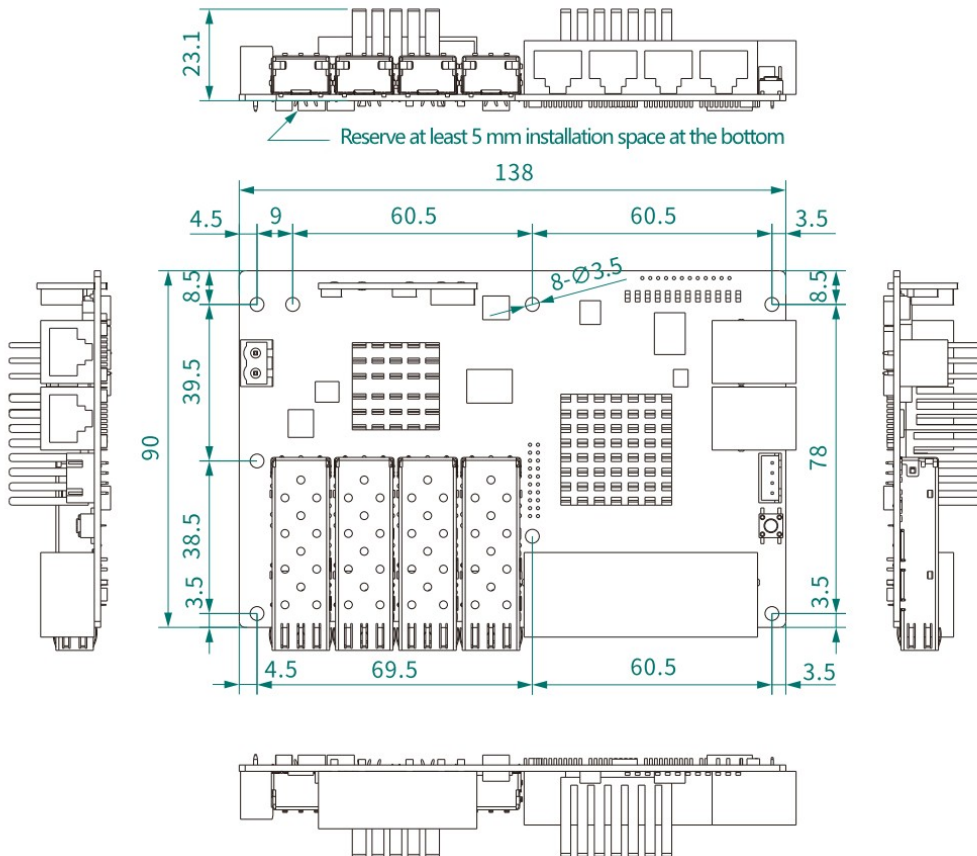
Software	
Switching	<p>Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics</p> <p>Support IEEE 802.1Q VLAN, port isolation, and SVL configuration</p> <p>Support MAC address aging and learning limitation, static MAC address binding, and source MAC address filtering</p>
Redundancy	<p>Support MW-Ring proprietary ring network technology</p> <p>Support ERPS</p> <p>Support STP/RSTP</p> <p>Support MRP</p>
Multicast	<p>Support IGMP Snooping</p> <p>Support static multicast MAC address binding</p> <p>Support unknown multicast filtering</p> <p>Support GMRP</p>
Security Management	<p>Support WEB, TELNET, and SSH access control</p> <p>Support ACL access control lists, 802.1X port authentication, and TACACS+ client</p> <p>Support loopback detection, alarms for network storm, ring status, and port disconnection, and email logs</p>
Management and Maintenance	<p>Support QoS, SNMP v1/v2c/v3, SNMP v1/v2c/v3 TRAP, RMON, and LLDP</p> <p>Support port mirroring, Ping, optical module DDM, and link diagnostics</p> <p>Support user permission management, system logs, SNTP client, and daylight saving time</p> <p>Support online reboot, factory reset, system upgrade, and configuration file upload/download</p> <p>Support MW-NMPv2, MixView, and MaxView management</p>
Switch Capability	

Processing Type	Store-and-Forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
Gigabit Fiber port	4 × 1000 Base-X SFP ports, compatible with 100 Base-FX and 1000Base-T Gigabit SFP module
Gigabit Copper port	6 × 10/100/1000 Base-T(X) auto-sensing RJ45 copper ports, full/half duplex, auto MDI/MDI-X
CONSOLE	1 × PH2.54-4P Console port with RS232 signal for device debugging
Button	Factory reset
Status LED	Power indicator, operation indicator, port indicator, support for external indicator signal output
Power Supply	
Input Voltage	DC9~24V, reverse polarity protection, pre-charge
Power Consumption	<10W@DC12V
Connection	5.08mm pitch 2-pin terminal block
Physical Characteristics	
Dimensions	138×90×23.1 mm (connectors excluded)
Installations	Embedded
Weight	About 0.15kg

Working Environment	
Operating Temp	-40°C~+75°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)

Dimensions

Unit: mm



Ordering Information

Standard Model	Gigabit SFP Port	Gigabit Copper Port	Input Voltage
CES7110G-4GF-6GT	4	6	DC9~24V



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