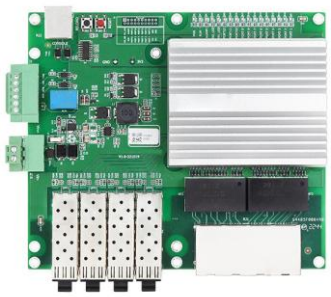
CES7112G-4GF-8GT

12-Port L2 Managed Embedded Industrial Gigabit Switch



- 4 x 1G SFP Ports, 8 x 1G RJ45 Ports
- MW-Ring (recovery time < 20 ms @ 200 switches), EAPS, ERPS, STP/RSTP/MSTP for network redundancy
- Support QoS, priority mapping based on 802.1P/DSCP/port, improving communication quality
- DC9~24V power inputs
- -40°C to +75°C operating temperature range

Product Description

CES7112G-4GF-8GT is a 12-port L2 fully Gigabit managed embedded industrial Ethernet switch designed for stable, high-performance industrial networking. Based on a store-and-forward architecture, it provides strong bandwidth processing, automatic packet error detection, and reduced transmission failures, ensuring efficient and reliable Gigabit data delivery. The switch supports web-based management and a wide range of network protocols to improve network efficiency, reliability, and security in complex industrial topologies. Its Gigabit SFP fiber ports support multiple optional transceivers for long-distance transmission with strong electromagnetic interference immunity, while the copper ports support 10/100/1000 Mbps, full- or half-duplex operation, and MDI/MDI-X auto-negotiation for low-latency, high-throughput communication.

Equipped with 4* Gigabit SFP fiber ports and 8* Gigabit RJ45 ports, the device features an intrinsically safe design and embedded installation to suit diverse industrial deployment scenarios. Built with industrial-grade components, it operates reliably across a wide temperature range of -40°C to +75°C and has passed comprehensive functional, temperature, safety, and EMC testing. The CES7112G-4GF-8GT is well suited for demanding applications in industrial automation, integrated energy systems, smart cities, intelligent transportation, smart mining, and smart factory environments.

Product Features

- Support storm suppression for broadcast, multicast, and unknown unicast packets, detect broadcast and multicast packet storms, and prevent broadcast storms
- Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and realize network load balance
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network
- Support VLAN division based on port, MAC, protocol, IP subnetwork, etc., which can be applied to networks in different environments
- Support the MAC address table and the aging time limit, and the static unicast / multicast MAC address is bound with the interface, to ensure the use of legitimate users
- Support IGMP Snooping, GMRP multicast protocol, reduce multicast data broadcasting in the network, and save network resources
- Support LLDP link layer discovery protocol, obtains LLDP neighbor device information, monitors link status, facilitates topology management and fault localization
- Support ERPS Ethernet multi ring protection technology, provide multi ring networking, perform link backup, achieve fast convergence, and improve network stability
- Support EAPS loop protection protocol and MW-RingV2 private ring network protocol, enhance the reliability of system communication
- Support STP, RSTP, MSTP generating tree protocol, which can eliminate network loop and improve network reliability
- Support loop back detection to prevent the network from ring and causing the network storm
- Support HTTP, HTTPS, TELNET, SSH network access mode, SSH can provide a secure remote login
- Support SNMPv1/v2c/v3, information query, information modification and troubleshooting through the MIB network management system, to achieve centralized management
- Support QoS service quality, give priority to voice, video and important data in network devices, and solve network congestion
- Support ACL access control list, filtering TCP/UDP/ICMP/IGMP messages based on source/destination IP and MAC address
- Support 802.1X port authentication, authentication and access control for access users

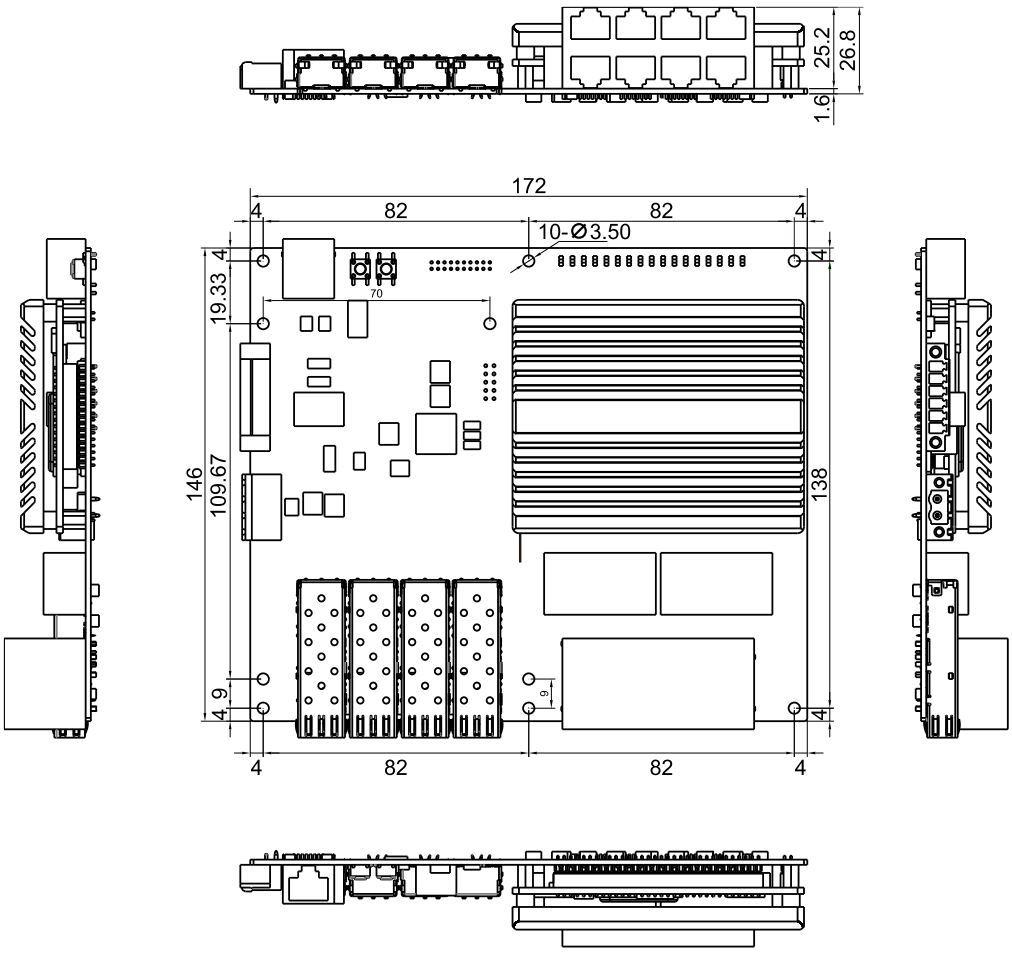
Technical Specifications

Protocol	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1w, IEEE 802.1p, IEEE 802.1X, IEEE 802.1Q, IEEE 802.3ad, IEEE 802.1AB
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
Jumbo Frame Size	10KB
MAC Table Size	8K
Interface	
Gigabit Fiber port	4*1000Base-X SFP ports, compatible with 100Base-FX
Gigabit Copper port	8*10/100/1000Base-T(X) auto-sensing copper ports, full/half duplex, auto MDI/MDI-X
Alarm	1* relay alarm output and 2* external power failure alarm inputs, 3.81 mm pitch 6-pin terminal block
CONSOLE	1* CONSOLE port, RS232 signal RJ45 port, used for device debugging
Button	Restart and factory reset
Status LED	Power LED, operation LED, alarm LED, port LED
Power Supply	
Input Voltage	DC9~24V, anti-reverse connection
Power Consumption	<9.5W@DC24V (full load)
Connection	5.08mm pitch 2-pin terminal block
Physical Characteristics	

Dimensions	172×146×26.8 mm
Installations	Embedded
Weight	About 0.37kg
Working Environment	
Operating Temp	-40°C to +75°C
Storage Temp	-40°C to +85°C
Relative Humidity	5%~95% (non-condensing)

Dimensions

Unit: mm



Ordering Information

Standard Model	1G SFP port	1G Copper port	Input Voltage
CES7112G-4GF-8GT	4	8	DC9~24V

Contact Us

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