

10 Port Managed L2+ Industrial Ethernet Switch with 2 Giga Combo, IESM 308-2GC O

OVERVIEW



The IESM 308-2GC O is a 10 Port L2 Managed Industrial Ethernet switch with 2 Giga Combo ports. It has 8*10/100 RJ45 ports + 2*100/1000 Combo ports. IESM 308-2GC series adopts the new generation of high-performance hardware and software platform. It can support security protection mechanism, ACL/QoS and VLAN functions for easy management and maintenance. It can be widely used in industries with harsh environment and strict stability requirements, such as Intelligent Transportation, Power, Petroleum, Marine Water Management, Petrochemical and Industrial Automation applications.

TECHNICAL SPECIFICATION

FEATURES

100Mbps access, Gigabit Combo port uplink

- ✓ Support 10/100M Ethernet port and Gigabit Combo port (100/1000M)
- ✓ Support Non-blocking wire speed forwarding
- ✓ Support Full duplex based on IEEE802.3x and Half duplex based on Backpressure

Strong Processing capability

- ✓ Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs
- ✓ Support QinQ configuration
- ✓ Support QoS, support port based, 802.1P based and DSCP based three priority modes and Equ, SP, WRR, SP+WRR four queue scheduling algorithms.
- ✓ ACL supports the filtering of data packets by configuring matching rules, processing operations and time permissions, and provides a flexible access control strategy.
- ✓ Support IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the multi terminal HD video surveillance and Video conference access requirements.
- ✓ Support STP, RSTP and MSTP tree protocol, eliminates two layers of loops, and realizes link backup.
- ✓ Support static convergence and dynamic convergence, effectively increases link bandwidth, achieves load balancing, link backup, and improves link reliability.

Complete safety protection mechanism

- ✓ Support 802.1X authentication
- ✓ Support Port Isolation.
- ✓ Support port +MAC binding, IP+MAC+ port binding function.

Easy operation and maintenance management

- ✓ Support various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- ✓ Support encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.
- ✓ Support RMON, System log, Port traffic Statistics, easy network optimization and transformation.
- ✓ Support CPU monitoring, memory monitoring, ping detection, cable length detection.

Managed Feature

Interface	IEEE802.3X (Full duplex) Broadcast storm control based on port speed Speed limit of the message flow in the access port. The minimum packet size is 64Kbps.
VLAN	IEEE802.1q, 4K VLAN based on port VLAN based on protocol QinQ configuration
Port Aggregation	LACP Manual aggregation Support 5 aggregation groups, each group supports 8 ports.
Spanning Tree	STP(IEEE802.1d) RSTP(IEEE802.1w) MSTP(IEEE802.1s)
Multicast	IGMP Snooping v1/v2/v3, Max 64 multicast groups, Fast log out MLD Snooping v1/v2, Multicast VLAN
Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS 8*Output queues of each port 802.1p/DSCP priority mapping Queue Scheduling Algorithm (SP,WRR,SP+WRR) Priority Mark/Remark
ACL	L2-L4 packet filtering, matching first 80 bytes message Provide ACL based on MAC, Destination MAC, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range and VLAN etc. Port-based Issuing ACL.
Security	Port isolation Broadcast storm control Port+MAC binding, IP+MAC+port binding
DHCP	DHCP Relay DHCP Client DHCP Snooping
Management and Maintenance	Web Management (HTTPS) SNMP V1/V2C/V3 One-key recovery Login Record

Specifications

Interface	8*10/100Base-TX ports 2*10/100/1000Base-T uplink RJ45 ports OR 2*100/1000M uplink SFP fiber slot ports
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T IEEE802.3u 100Base-TX/FX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x
Ethernet Port Feature	Port 1-8 10/100Base-T(X), Auto-sensing, Port 9-10: 10/100/1000Base-T, Auto-sensing, full/half duplex MDI/MDI-X self-adaption
Fiber Port Feature	Gigabit SFP (as Combo Port option)

Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	64Gbps (Non-blocking)
Forwarding Rate @ 64byte	4.17Mpps
MAC	16K
Buffer Memory	4M
Jumbo Frame	10K
Twisted Pair Transmission	10BASE-T : Cat3,4,5 UTP(\leq 100 meter) 100BASE-TX : Cat5 or later UTP(\leq 100 meter) 1000BASE-T : Cat5e or later UTP(\leq 100 meter)
Optical Fiber Cable	Multi Mode : 850nm 0-550M Single Mode : 1310nm 0-40KM,1550nm 0-120KM.
Working voltage	Dual Redundant DC12-48V 5 Pin Terminal block, Reverse polarity protection.
Power Consumption	Standby:<8W, Full load:<12W
LED Indicator	PWR Link/Act Speed
Operation Temp / Humidity	-40 to +80°C, 5% to 90% RH Non condensing
Storage Temp / Humidity	-40 to +85°C, 5% to 95% RH Non condensing
Dimension	165*148*54mm
Net /Gross Weight	<1.3kg /<1.8kg
Installation Method	35 Din Rail Installation.
Ingress Protection	IP40
Factory Reset	Yes
Protection levels tested for	Port lightning protection : 6KV 8/20us IEC61000-4-2 (ESD) : \pm 8kV contact discharge, \pm 15kV air discharge IEC61000-4-3 (RS) : 10V/m (80 to 1000MHz) IEC61000-4-4 (EFT) : Power \pm 4kV;Data line: \pm 2kV IEC61000-4-5 (Surge) : Power : CM \pm 4kV/DM \pm 2kV;Data line: \pm 4kV, IEC61000-4-6 (RF conduction) : 10V (150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field) : 100A/m continuous,1000A/m, 1s to 3s IEC61000-4-9 (pulsed magnetic field) : 1000A/m IEC61000-4-10 (damped oscillation) : 30A/m 1MHz IEC61000-4-12/18 (oscillating wave) : CM 2.5kv, DM 1kV IEC61000-4-16 (common mode conduction) : 30V continuous;300 v, 1s FCC Part 15/CISPR22 (EN55022) : Class B IEC 61000-6-2 (general industry standard)
Mechanical characteristic	IEC60068-2-6 (anti-vibration) IEC60068-2-27 (impact resistant) IEC 60068-2-32 (free fall)

ORDERING INFORMATION : IESM 308-2GC O

IESM 308-2GC : L2+ Managed Industrial Ethernet Switch with 8* 10/100M RJ45 ports
 : 2 Giga Combo ports with 10/100/1000M uplink RJ45 ports OR
 2*100/1000M SFP fiber port
 O : Fixed