

# IS212E1-8G4GS Product Series Specification

4GS+8G-port Layer 2 full Gigabit managed Ethernet switches

## Product Brief

The IS212E1-8G4GS series is a 4GS+8G-port Layer 2 full Gigabit managed Ethernet switches. This series offers 2 product models, equipped with multiple interface options including Gigabit electrical ports, 1G SFP slots. It supports two power supply modes (12~57VDC and 100-240VAC) and can be installed via DIN rail or wall-mount, meeting the needs of diverse application sites.

Designed for communication applications with strict requirements, the IS212E1-8G4GS series caters to a wide range of industrial and extended enterprise network connectivity needs. Featuring an IP41-rated metal enclosure and fanless design, it operates stably in a wide temperature range of -40 to 75°C (-40 to 167°F). This switch is suitable for harsh environments and widely applicable in public transportation, traffic management, smart buildings, and other extreme-temperature scenarios.

The system supports various network protocols and industry standards, such as Ring, STP/RSTP/MSTP, ERPS, DHCP Server/Snooping/Relay, VLAN, QoS, IGMP Snooping, LLDP, port trunking, and port mirroring. It also provides comprehensive management functions including port configuration, NAS, ACL, network diagnostics, and online upgrades, with access methods like CLI, WEB, TELNET, SSH, and SNMP.



## Hardware Specifications

Ports	4 x 100/1000 BASE-X SFP	MAC Address	16K
Switching Capacity	24Gbps	RELAY Output	1-channel relay alarm output
DIP Switch	1. RST/Factory	Max DC Power Consumption	15W
	2. 250m long distance mode	Max AC Power Consumption	15.5W
	3. VLAN	Operating Temperature	-40~75°C (-40~167°F)
	4. QoS	Storage Temperature	-40~85°C (-40~185°F)
DC Power Supply	Dual 1+1 redundant power supply (DC)	Input Voltage (DC)	12~57VDC
AC Power Supply	Single power supply (AC)	Input Voltage (AC)	100~240VAC
Operating Humidity	5~95% (non-condensing)	Fan Quantity	Fanless
Enclosure	IP41-rated metal housing	Installation	DIN Rail Mount
Dimensions (H x W x D)	5.71" x 2.28" x 4.72" (140 x 54 x 110 mm)	Weight	≤1.0kg
IEC 61000-4-2 (ESD)	Level 4 (Contact discharge ±8kV, Air discharge ±15kV)	IEC 61000-4-5 (Surge) DC	Level 4 (Power: Common mode ±4kV, Differential mode ±2kV; Port: Common mode ±6kV, Differential mode ±2kV)
IEC 61000-4-4 (EFT)	Level 4 (Power: ±4kV; Port: ±2kV)	IEC 61000-4-5 (Surge) AC	Level 2 (Power: Common mode ±2kV, Differential mode ±2kV) Level 4 (Port: Common mode ±6kV, Differential mode ±2kV)

## Software Advantages



### Advanced Switching Features

- Supports VLAN, GVRP, QoS, LACP and Port Mirroring.
- Supports DHCP Snooping.
- Supports protocols including STP/RSTP/MSTP.
- Enables flexible network segmentation, load balancing and reliable redundancy.



### Network Threat Mitigation

- Provides features including ACL, IP Source Guard and IP+MAC Binding.
- Effectively defends against Layer 2 attacks such as ARP spoofing and IP/MAC address spoofing.



### Industrial-grade Reliability

- Supports the ERPS industrial ring network protocol.
- Link fault self-healing time < 20ms, ensuring uninterrupted critical services.



### Diversified Management Methods

- Supports Web UI, CLI and SNMP v1/v2/v3.
- Supports Syslog, RMON, Telnet/SSH.
- Meets operational needs ranging from easy configuration to in-depth maintenance.



### Access and Authentication Security

- Integrates 802.1X, AAA, RADIUS and TACACS+.
- Enables user-based precise access control and centralized auditing.



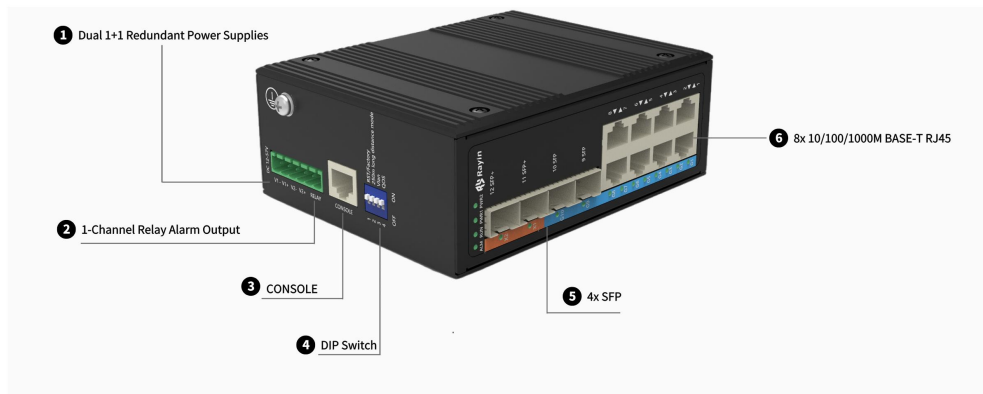
### Integrated O&M Tools

- Integrates Ping/Traceroute functions.
- Supports NTP clock synchronization.
- Supports software upgrades.
- Supports configuration backup and restoration, improving O&M efficiency.

## Feature Overview

### Industrial Ethernet TSN Switch

The switch equipped with 8x10/100/1000M BASE-T RJ45 ports, 2x10G SFP+ports and 2x2.5G SFP ports, delivering stable performance for industrial and enterprise networks



**24Gbps**  
Capacity

**16K**  
MAC address

**12-57VDC**  
Wide voltage input

## Order Information

Model	RJ45		SFP	POWER	
	None PoE	PoE	1G	Input Range	Quantity
IS212E1-8G4GS-2P48	8	—	4	12~57VDC	2
IS212E1-8G4GS-1P220	8	—	2	100-240VAC	1