

IS-RG614 Series

14-port Gigabit Rack Mount Managed Layer 2/4 Industrial Ethernet Switch



The IS-RG614 Series is a 14-port Full Giga switch that is specifically designed for industrial applications that require fast and secure fiber communications. It is suitable for use in industries such as industrial automation and road traffic control. This switch offers a range of Layer 2 managed features, including VLAN, QoS, IGMP Snooping, and LACP/Trunking. It also supports standard network redundancy protocols like Rapid Spanning Tree (RSTP) and enhanced RSTP for large ring networks with up to 80 switches. In terms of traffic management, the S-RG614 Series has features like port classification, port policing, port schedule, port shaping, and QoS control lists. Additionally, it provides Radius and port security to enhance cybersecurity protection.



Key features

Full Gigabit Switching and Ultra-High Throughput

- ▶ 14-port Full Gigabit Ethernet, including 4 100/1000M SFP and 10 Gigabit RJ45.
- ▶ High flexibility of cable types and distances for system integrators.
- ▶ Fiber ports support both 100M and 1000M SFP.
- ▶ Stores and forwards with non-blocking switch fabric.

Management Features

- ▶ Various configuration paths, including WebGUI, CLI, SNMP.
- ▶ Layer 2 management features include VLAN, QoS, IGMP Snooping, LACP/Trunk...etc.
- ▶ Enhanced RSTP for large ring network topology with up to 80 switches.
- ▶ Traffic management: Port classification, Port policing, Port scheduler, Port shaping, QoS control list, WRED, Port Security.
- ▶ LLDP topology control.

Enhanced Cyber Security for Critical Applications

- ▶ 802.1X/RADIUS port-based access control.
- ▶ IP Security/Port Security.
- ▶ HTTPs/ Management IP secure access.
- ▶ Management VLAN separate the control and data vlan.

Rugged Design for Wayside Network Switching with Wide Power Input Range

- ▶ 10~60V wide power range design with redundant power input
- ▶ Excellent heat dissipation design for operating in -40~75oC environments
- ▶ GMP Snooping v1/v2/v3, IGMP Query, 512 L2 Multicast Groups for video.
- ▶ EN IEC 61000-6-4 Emission standard for Industrial Environment

Specification

Technology

Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3u 100Base-FX Fast Ethernet Fiber IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper IEEE 802.3z Gigabit Ethernet Fiber IEEE 802.3x Flow Control and back-pressure IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1p Class of Service (CoS) IEEE 802.1Q VLAN IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP) IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.1X Port-based Network Access Protocol
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Performance

Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric
Number of MAC Address	16K
Packet Buffer Memory	9216 bytes
Transfer performance	10BaseT: 14,881pps, 1 00BaseTX/FX: 148,810pps, 1000BaseTX/FX:1,488,100pps
VLAN	256 VLANs
VLAN ID	VLAN ID 1~4094
Traffic Prioritize	8 Priority Queues per Port

Interface

Ethernet Port	10X 100/1000M RJ45, Auto Negotiation 4x100x1000M SFP, DDM
System LED	1 x Power: Red On
Giga Ethernet Port LED	Link (Green On) Activity (Green Blinking), Speed 1000M(Amber On), Speed 10M/100M (OFF)
Giga SFP LED	Link (Green On) Activity (Green Blinking), Speed 1000M(Amber On), Speed 10M/100M (OFF)
Digital Output (Alarm)	1 x Digital Output: Dry Relay Output with 0.5A 24V DC
Digital Input	1 x Digital Input. Low: 0~10V, High: 11~30V
Power Input	2 x AC 110/220V

Power Requirement

Power Input	Redundant AC Power Input, IEC Connector
Input Voltage Range	100/240 VAC, 50Hz~60Hz
Power protection	10KV Lightning Protection
Power Consumption	Max 16.08W

Software

Management Interface	WebGUI, Command Line Interface (CLI), SNMP
Network Management	IPv4 management, SNMP v1/v2c/v3/Trap, MIBs, LLDP, DHCP client, TFTP, System Log, RMON
Traffic Management	Flow Control, Port Trunk/802.3ad LACP, IEEE 802.1Q VLAN, IEEE802.1AD (QinQ), Private VLAN, Shared VLAN, Rate Limiters, Port Mirror, IGMP Snooping v2, Port classification, Port policing, Port scheduler, Port shaping, QoS control list, Storm policing, WRED, Port Security, ACL, Loop Protection
Security	IEEE 802.1X/RADIUS, Management IP, Management VLAN, SSL
Redundancy	Rapid Spanning Tree Protocol/Spanning Tree Protocol (RSTP/STP), Enhanced RSTP

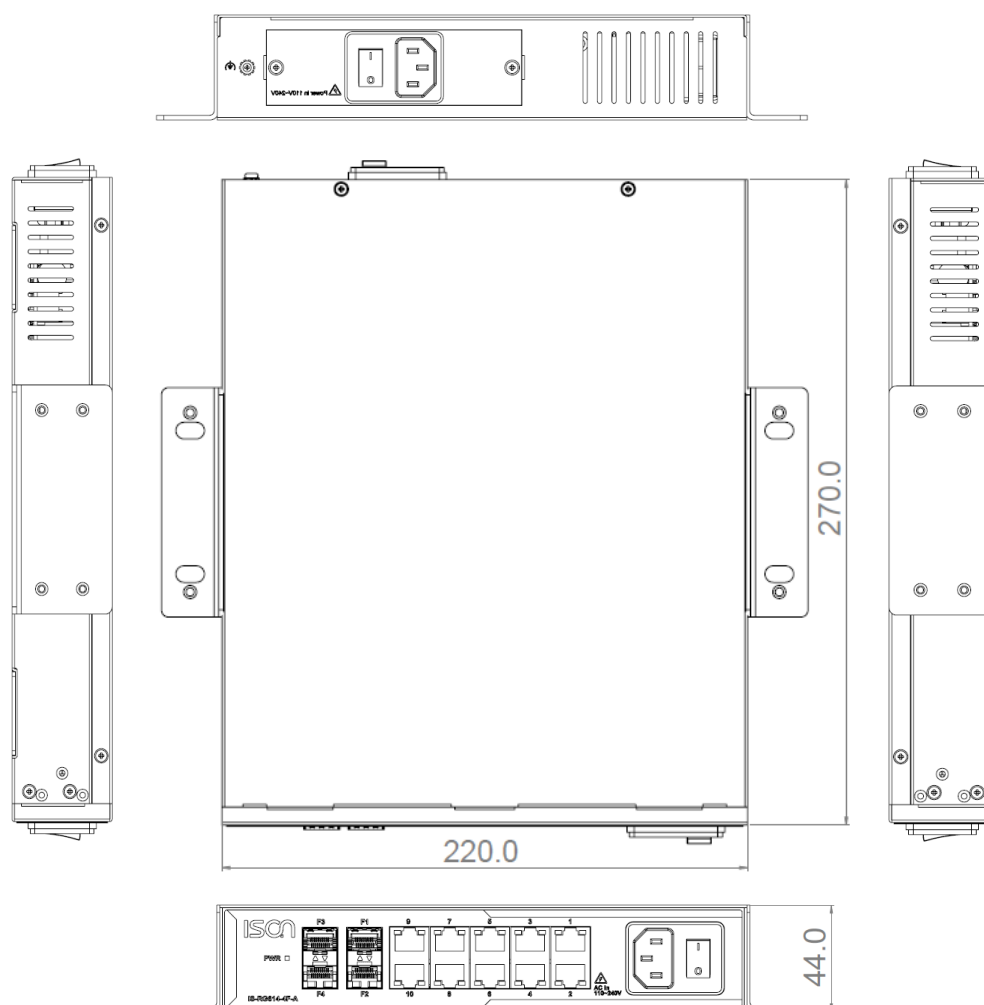
Environmental and Compliances

Operating Temperature	-40~75°C (Cold startup at -40°C)
Storage Temperature	-40~85°C
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-2-6, -27, -32
Certification Compliance	CE, FCC
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3)
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>200,000 hours

Mechanical

Protection	IP30
Dimension	44mm x 220mm x 270mm(LxWxD)
Weight	2.0 kg
Installation	Rack Mount, Wall mount

Dimension Diagram



Ordering Information

Available Models	Description	10/100/1000Mb TX	100/1000Mb FX
IS-RG614-4F-2A	Industrial 14 port Gigabit Layer 2 Managed Ethernet Switch, -40~75°C, Dual AC 110/220V	10	4
IS-RG610-2F-A	Industrial 10 port Gigabit Layer 2 Managed Ethernet Switch, -40~75°C, single AC 110/220V	8	2
IS-RG610-A	Industrial 10 port Gigabit Layer 2 Managed Ethernet Switch, -40~75°C, single AC 110/220V	10	0
IS-RG608-2F-A	Industrial 8 port Gigabit Layer 2 Managed Ethernet Switch, -40~75°C, single AC 110/220V	6	2

Accessories

1. 100 Mb SFP Modules
2. Gigabit SFP Modules
3. IS-WK2U wall mount kit
4. Rack mounting kit

Package Checklist

- IS-RG614 Switch
- Quick Installation Guide (Printed)
- RJ45/SFP Cap/Rack Mount kit