

IS-RG928-8C-4F Series

16+8+4 Port Industrial Managed Gigabit L3 Switch



The IS-RG928 Series are full Gigabit Ethernet Switches with 28 Gigabit Ethernet ports, perfect for upgrading an existing network to a full Gigabit speed Infrastructure; a full Gigabit network provides higher throughput than legacy Fast Ethernet network. The IS-RG928 Series reduces the response time for timing sensitive applications which may be mix of video, voice, and data stream in the traffic flow. With the powerful S/W and H/W features, the IS-RG928 Series prioritize, partition and optimize user's network while provide reliable and quality services The IS-RG928 Series switches are suitable for access level network connection.



Key features

- ▶ 16x Gigabit Ethernet ports
- ▶ 8x Gigabit combo Ethernet
- ▶ 4x 1000F(x) SFP Slot
- ▶ Built for harsh environments and wide temperature range application
- ▶ RSTP, MSTP, ERPS, LACP for Network Redundancy
- ▶ QoS CoS/DSCP to increase determinism
- ▶ Supports IGMP Snooping v1/v2/v3, up to 512 groups
- ▶ DHCP Relay Option 82 for policies IP address assignment
- ▶ SNMP v1/v2c/v3 for network management
- ▶ Supports Storm Protection
- ▶ USB storage for configuration-free replacement
- ▶ Supports industrial automation protocols Ethernet/IP and Modbus TCP

Specification

Technology

Standard	- IEEE 802.3 10BaseT - IEEE 802.3u 100BaseTX - IEEE 802.3ab 1000BaseT - IEEE 802.3z 1000BaseX - IEEE 802.3x Flow Control - IEEE 802.3ad/802.1AX LACP - IEEE 802.1D Spanning Tree Protocol - IEEE 802.1w Rapid STP - IEEE 802.1s Multiple STP - ITU-T G.8032 / Y.1344 ERPS - IEEE 802.1Q VLAN Tagging - IEEE 802.1ad Stacked VLANs - IEEE 802.1p Class of Service - IEEE 802.1X Network Authentication - IEEE 802.1AB LLDP - IEEE 1588 PTP
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Performance

Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric		
Switch Fabric	56Gbps		
Number of MAC Address	16K		
Packet Buffer Memory	12Mbits		
Jumbo Frame	9216bytes		
VLAN	256 VLANS		
VLAN Table Size	4094		
Priority Queues	8 Queues		
IGMP Group	512	VLAN IP Entries	64
ACL Group	512	Routing Entries (IPv4/IPv6)	512/256 host, 64/64 LPM

Software Feature

Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security	802.1X, RADIUS, TACACS+, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet
L3 Switching	Static Routing, RIP v1/v2, OSPF v2, VRRP v2

Interface

RJ45 Port	16x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
Combo Port	8x 10/100/1000T(x) with dual speed SFP combo port, auto media detect
Fiber Port	4x 1000F(x) SFP Slot
LED Indicators	Per unit: PWR1, PWR2(AC2/DC2), Fault, Ring Master, Ring State Ports: Link/Active with Green LED on the left, Speed on the right with highest speed(Amber), low speed(OFF)
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
Button	Multiple functions reset button
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

Power Requirements

Operation Voltage	90~264VAC, 12~48VDC, redundant dual inputs
Connection	AC socket, DC 4-pin terminal block
Power Consumption	0.3A@110VAC, 0.82A@24VDC
Protection	Overload Current Protected, Reverse Polarity Protected

Mechanical Construction

Enclosure	Aluminum / Steel met
Protection Class	IP30
Dimensions	440x44x331 mm (WxHxD)
Weight	4.80 kg
Mounting	Rack Mounting

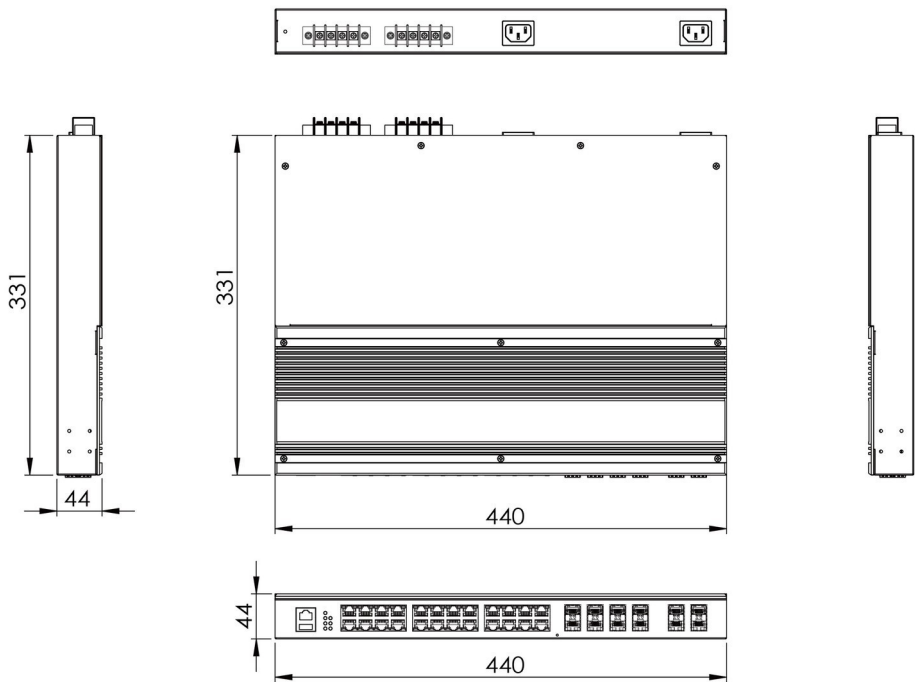
Environmental Limits

Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	CE, FCC
MTBF	>100,000 hours
Warranty	5 Years

Dimension Diagram



Ordering Information

Available Models	Description
IS-RG928-8C-4F-2A	16+8+4 Port Industrial Managed Gigabit Ethernet Switch - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - 2x 90~264VAC Power Input
IS-RG928-8C-4F-2D	16+8+4 Port Industrial Managed Gigabit Ethernet Switch - 16x 10/100/1000T(x) + 4x 1000F(x) SFP Slot + 8x Combo Ports - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - 2x 12~48VDC Robust Isolation Power Input