IS-RG508P Series

8-ports Gigabit Rack Mount Managed Layer 2/4 Industrial PoE Switch

The IS-RG508P Series full Gigabit managed 8-port Ethernet switch with up to 6 PoE IEEE 802.3af/at PoE ports provide easy to use plug-n-play applications; a full Gigabit network provides higher throughput than legacy Fast Ethernet network. The cost effective IS-RG508P Series managed switches can provide power and data directly through a single Ethernet cable, which is ideal for factory production line or embedded into machine system. The IS-RG508P Series managed switches are especially good for Building automation, CCTV, ITS and security/safety related applications.

Key features

- Provide 6 Gigabit RJ45 Copper ports plus 2 100 / 1000 Based SFP(SX/LX/LHX) ports
- Support up to 6/4 PoE port, IEEE 802.3af/at PoE, 15.4/30 Watt output, Full Load
- Support up to 2 Ultra High Power PoE port, 60 Watt output Configurable (IS-RG508P-2F-6 Only)
- Support Smart PoE management function, PoE On/Off, Scheduling.
- Support 9K Jumbo frames
- Layer 2 Line-Speed Switching Fabric, non-blocking
- Layer 4 ACL (Access Control List), QCL (QoS Control List), Port Control
- Network redundancy LACP, Spanning Tree Protocol, STP, RSTP, MSTP
- Support I.A. Ring, I.A. Chain (Network Load Balancing), 250pcs@20ms
- Support BLP (Bad Link Protection) of I.A. Ring
- Support Ring Coupling, Multiple Ring, Dual Homing
- Private/Port-based VLAN, IEEE 802.1Q Tag-based VLAN, Protocol-based VLAN, Private VLAN, IP-Subnet based VLAN, Voice VLAN, IEEE 802.1ad Double Tagging (QinQ), MVR, VCL
- Multicasting support IGMP v1/v2/v3, proxy & snooping, MLD snooping
- IEEE 802.1X Port-based access control / RADIUS / TACACS+ Server
- VeriPHY Cable Diagnostics, Per VLAN mirroring
- AC Power Input 100/240 VAC, 50Hz ~ 60Hz
- 10KV Lightning Protection (Power Module)
- SNMP v1/v2c/v3, Trap / Inform
- Rack Mount, Wall Mount installation
- Port Power Saving
- Loop Protection
- IP 30 Protection
- 2KV surge immunity on RJ45 Copper port
- 1.5KV Hipot
- Rugged Fanless Design
- Fault Alarm Notification (Power, Ports)
- Support IPV4/V6

Specification

Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	8K
Packet Buffer	4 Mbits
Jumbo frame	9K
Switching Fabric / Back Plane	16Gbps

RJ45 Copper ports

Speed	10/100/1000 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex
Ethernet Port Protection	1.5KV VRMS 1minute(Hipot), 2KV surge immunity on RJ45 Copper ports
PoE	IEEE 802.3af/at (15.4/30 Watt), PoE/PoE+, 60 Watt Ultra high power PoE

Fiber Ports

Port Types supported	100/1000 Base SFP Slot
Filter port connector	LC/RJ45 connector for fiber ports
Optimal fiber cable	Typical 50 or 62.5/125 µm for multimode (mm) Typical 8 or 9/125 µm for single mode (sm)

Protocols & Standards

IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1D/w/s, IEEE 802.1Q/p, IEEE 802.1ab, IEEE 802.1X, IEEE 802.3ad LLDP, IPv4/IPv6, SNMP v1/v2c/v3, DHCP Option 82, BootP, TFTP, ARP, RARP, Telnet, Syslog, Flow Control, Back Pressure, ICMP, UPD, TCP

Network Redundancy

I.A. Ring / I.A. Chain	Link Loss Recovery < 20ms@250pcs
Network Topology Optimize Functions	Ring Coupling, Multiple-Ring, Dual-Homing
Spanning Tree Protocol	IEEE 802.1D/1w/1s, STP/RSTP/MSTP
Port Trunk / LACP	Static Trunk or LACP (Link Aggregation Control Protocol)

Bridge, VLANs, Protocols

Flow Control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Max VLANs	256
VLAN Types	Port-Based VLAN, Private VLAN, MAC-Based VLAN
	IEEE 802.1Q tag-based VLAN, IP Subnet-Based VLAN, Voice VLAN
	IEEE 802.1ad Double Tagging (QinQ), Protocol-Based VLAN, VCL
Multicast protocols	IGMP v1, v2, V3, up to 255 multicast groups
	IGMP snooping, querying, MLD Snooping, GVRP
	Immediate leave and leave proxy, Throttling and filtering
LLDP	IEEE 802.1ab LLDP / LLDP-MED

Traffic management & QoS

Priority	IEEE 802.1p QoS, Ingress / Egress, QCL
Number of queues per port	8
Scheduling schemes	SPQ, WRR, SPQ+WRR
Traffic Shaper	Port-based shaping

Security

Port Security	IP and MAC-based Access Control/Filter, Auth User / Privilege Level Control
	IEEE 802.1X Authentication Network Access Control / RADIUS / TACACS+ Server
Storm Control	Multicast / Broadcast / Flooding Storm Control / Port Access Control / Limiters

Management

User Management Interfaces	Cisco-Like CLI (Command Line Interface)
	Web-based Management, Windows Utility for quick startup
	SNMP V1, V2c, V3 USM, RMON, Trap / Inform / Retry, Telnet (5 sessions)
Management Security	HTTPs, SSH, Access Management, Loop Protection
	RADIUS Client for Management
Upgrade & Restore	TFTP for Configuration Import / Export
	TFTP for Firmware Upgrade
Diagnostic	Syslog, Level Info / Warning / Error, Detailed Syslog
	Port Mirror, Per VLAN mirroring, CPU Load Monitor, Traffic Counter
	VeriPHY Ethernet Cable Diagnostics, ICMP Ping
PoE	Smart PoE management
MIBs	RFC 1757RMON 1, 2, 3, 9; RFC 2674 Q-Bridge MIB
	RFC 1213 MIB II; RFC 1493 Bridge MIB; RFC 2233 IF MIB
DHCP	Client Mode, Server Mode, Relay Mode, Snooping, Option 82
NTP/SNTP	YES
System Status	Device info/status; Ethernet port status
Green Ethernet	Port Power Savings
Layer 4 Security	Access Control List

Power

Power Input	AC Power Input, IEC Connector
Input Voltage Range	100/240 VAC, 50Hz~60Hz
Power protection	10KV Lightning Protection
Transient protection	> 15, 000 Watts peak
Power Consumption	13 Watt (Without PD Load), PSE: 6 x 30Watt, total power budget, 180 Watt

Indicators

Power status indication	Power Input status
Ethernet port indication	Link & speed

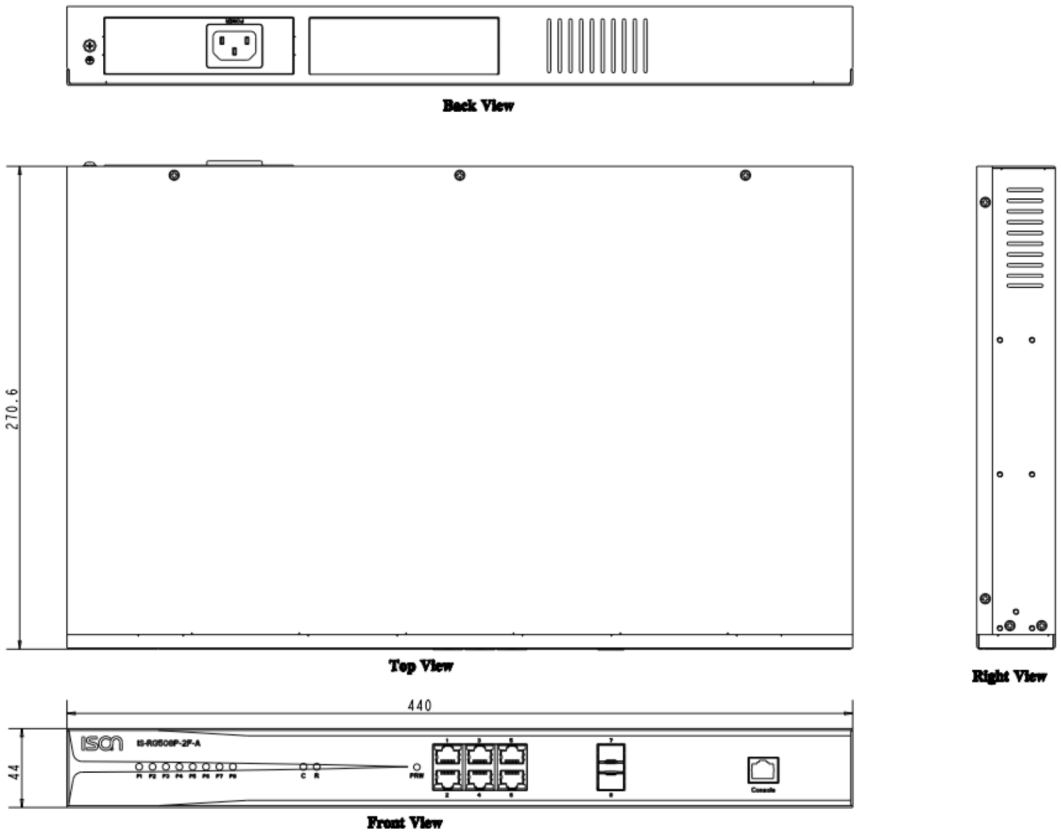
Environmental and Compliances

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	>25 years

Mechanical

Protection	IP30
Dimension	44mm x 440mm x 270.6mm(LxWxD)
Weight	3.5 kg
Installation	Rack Mount, Wall mount

Dimension Diagram



Ordering Information

Available Models	Description	10/100/1000Mb TX	100/1000Mb FX
IS-RG508P-2F-6	Industrial 8 port Gigabit Layer 2/4 Managed Switch, 6 PoE/PoE+ (2 x 60Watt configurable)	6 (6 PoE)	2
IS-RG508P-2F-4	Industrial 8 port Gigabit Layer 2/4 Managed Switch, 4 PoE/PoE+	6 (4 PoE)	2

Accessories

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

Package Checklist

- IS-RG508P Switch
- Quick Installation Guide (Printed)
- Documentation & Software CD
- 19” 1U Standard Rack-Mount Kit
- RS232 Console Cable
- RJ45/SFP Cap