

IS-RG528 Series

28-port Gigabit 19" Managed Layer 2/4 Industrial Ethernet Switch



The IS-RG528 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-RG528 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-RG528 Series prioritize, partition and optimize user's network while provide reliable and quality services. The IS-RG528 Series switches are suitable for access level network connection.



Key features

- ▶ 24 Gigabit RJ45 Copper ports plus 4 100 / 1000 Based SFP (SX/LX/LHX) ports
- ▶ Support 9K Jumbo frames
- ▶ Layer 4 ACL (Access Control List), QCL (QoS Control List), Port Control
- ▶ Network redundancy LACP, Spanning Tree Protocol, STP, RSTP, MSTP
- ▶ I.A. Ring, I.A.Chain (Network Load Balancing), 250pcs@20ms
- ▶ Ring Coupling, Multiple Ring, Dual Homing
- ▶ Port-based, Tag-based, Protocol-based VLAN, IEEE 802.1ad / QinQ, MVR
- ▶ Multicasting support IGMP v1/v2/v3, proxy & snooping
- ▶ IEEE 802.1X Port-based access control / RADIUS Server
- ▶ Per VLAN mirroring
- ▶ Redundant Power Input 12~58 VDC or 100/240 VAC, 50Hz ~ 60Hz
- ▶ Reverse power protection
- ▶ SNMP v1/v2c/v3, Trap / Inform
- ▶ Port Power Saving
- ▶ -40~75°C operating temperature
- ▶ IP 30 Protection
- ▶ 1.5KVHipot, 2KV surge immunity on RJ45 Copper port
- ▶ Rugged Fan-less design

Specification

Ethernet

| | |
|----------------|--|
| Operating Mode | Store and Forward, L2 wire-speed/non-blocking switching engine |
| MAC addresses | 16K |
| Packet Buffer | 8 Mbits |
| Jumbo frame | 9K |

RJ45 Copper ports

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|--------------------------|---|
| 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 | 1500 VRMS 1minute(Hipot), 2KV surge immunity on RJ45 Copper ports |

Fiber Ports

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|----------------------|--|
| Port Types supported | 100/1000 Base SFP Slot |
| Fiber 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) |

Network Redundancy

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|------------------------|----------------------------------|
| 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

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|---------------------|---|
| Flow Control | IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex) |
| Max VLANs | 2048 |
| 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 |
| Multicast protocols | IGMP v1, v2, V3, up to 512 multicast groups |
| | IGMP snooping, querying, MVR, Immediate leave and leave proxy |
| | Throttling and filtering |
| LLDP | IEEE 802.1ab LLDP / LLDP-MED |

Traffic management & QoS

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|---------------------------|--|
| 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

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

Management

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|----------------------------|--|
| 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 |
| 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 |
| | ICMP Ping |
| 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 |
| NTP/SNTP | YES |
| System Status | Device info/status; Ethernet port status |
| Green Ethernet | Port Power Savings |
| Layer 4 Security | Policy / Profile-based Access Control List |

Power

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|--------------------------|--|
| Power Input | Redundant Power Input, AC/DC Input, IEC Connector / Terminal Block |
| Input Voltage Range | 12-58 VDC or 100/240 VAC, 50Hz~60Hz |
| Reverse power protection | YES |
| Transient protection | > 15, 000 Watts peak |
| Power Consumption | 25 Watt |

Indicators

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

Environmental and Compliances

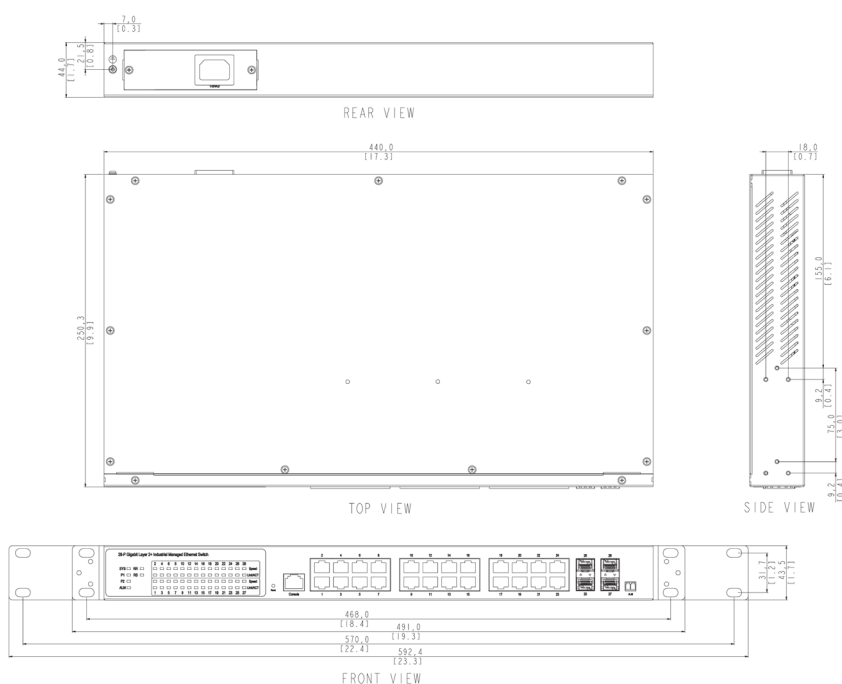
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|-----------------------|----------------------------------|
| Operating Temperature | -40~75°C (Cold startup at -40°C) |
| Storage Temperature | -40~85°C |

| | |
|-----------------------------|--|
| Humidity | 5~95% (Non-Condensing) |
| Vibration, shock, free fall | IEC-60068-6, -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 | >220,000 HRs |

Mechanical

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|--------------|-------------------------------|
| Protection | IP30 |
| Dimension | 570mm x 43.5mm x 250mm(LxWxD) |
| Weight | 3.11 kg |
| Installation | 19" Rack mount |
| Relay Output | 1A, 30V, Normal Open |

Dimension Diagram



Ordering Information

| Available Models | Description | 10/100/1000Mb TX | 100/1000Mb FX |
|------------------|--|------------------|---------------|
| IS-RG528-4F-2A | Industrial 28 port Gigabit Layer 2/4 Managed Switch, Dual AC, -40~75°C | 24 | 4 |
| IS-RG528-4F-A | Industrial 28 port Gigabit Layer 2/4 Managed Switch, Single AC, -40~75°C | 24 | 4 |
| IS-RG528-4F-D | Industrial 28 port Gigabit Layer 2/4 Managed Switch, Dual DC, -40~75°C | 24 | 4 |

Accessories

- 100 Mb SFP Modules
- Gigabit SFP Modules