

IS-RG628-4C-4F-A

Industrial 28G L2+ Rackmount Ethernet Switch



The IS-RG628 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-RG628 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-RG628 Series prioritize, partition and optimize user's network while provide reliable and quality services The IS-RG628 Series switches are suitable for access level network connection.



Key features

High Throughput Ethernet Switching

- ▶ 20 Port Gigabit TX, 4G Combo, 4G SFP
- ▶ DDM function for high quality fiber connectivity monitoring
- ▶ 16K MAC address table
- ▶ 4Mbytes Packet Buffer

Management Features

- ▶ Various configuration including Web GUI, CLI, SNMP and RMON
- ▶ IEEE 1588V1/V2 PTP time management
- ▶ LLDP topology discovery
- ▶ USB for easy field configuration and firmware update
- ▶ Software Utility Interface for LAN devices management

Enhanced Cyber Security for Critical application

- ▶ 802-1X/RADIUS port-based access control
- ▶ Port MAC secure learning
- ▶ Private VLAN, IP Security, Port Security
- ▶ HTTPS/SSH/ Management IP secure access
- ▶ L2-47 Access Control List (ACL)

Rugged Design for Wayside Network

Switching with Wide Power Input Range

- ▶ Excellent heat dissipation design for operating in -40~75°C environment
- ▶ High level EMC protection exceeding traffic control and heavy industrial standards' requirements
- ▶ IEC 61000-6-2:4 Heavy Industrial Environment
- ▶ EN50121-4 Railway Tracksides EMC Standard

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 1000BaseT Gigabit Ethernet copper - IEEE 802.3z Gigabit Ethernet Fiber - IEEE 802.3x Flow Control and back-pressure - IEEE 802.3az (Energy Efficient Ethernet) - IEEE 802.1 AB Link Layer Discovery Protocol LLDP) - IEEE 802.1p Class of Service (CoS) - IEEE 802.1Q VLAN and GVRP - IEEE 802.1D 2004 Rapid Spanning Tree Protocol (RSTP) - IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) - IEEE 801.1AX/802.3ad Link Aggregation Control Protocol (LACP) - IEEE 802.1x Port based Network Access Protocol - IEEE 1588 Precision Time Protocol v1/v2 - ITU-TG. 8032 Ethernet ring protection switching(ERPSv2)
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Performance

Switch Technology	Store and Forward Technology with 56Gbps Non-Blocking Switch Fabric Internal Packet Buffer: 4Mb Forwarding rate: 41.67Mpps (1,488,000pps/port)
Number of MAC Address	16K
Jumbo Frame	9216 Bytes
Transfer performance	10BaseT: 14,881pps, 1 00BaseTX/FX: 148,810pps, 1000BaseTX/FX:1,488,000pps
VLAN	256 VLANS
VLAN ID	1-4094
Traffic Prioritize	8 Priority Queues per Port
IGMP Groups	512

Software Feature

Management	CGI WebGUI, CLI, IPv4/IPv6(RFC2460), Telnet, SNMP v1/v2c/v3, SNMP Trap, RMON, DHCP server/client/Option 82, TFTP, System Log, SMTP
Traffic Management	Flow Control, Rate Control, Storm Control, CoS, QoS, RFC 2474 DiffServ
Filter	IGMP Snooping v1/v2/v3, IGMP Snooping Fast-Leave/Immediate-Leave, IGMP Query, GMRP, IEEE802.1Q VLAN, QinQ, GVRP, Private VLAN
Security	IEEE 802.1X/RADIUS, TLS v1.2, Access Control List (ACL, MAC/IP/ARP filter), HTTPs/SSH secure login, First login password management
Advanced Security	TACACS+, Multi-user authentication, IEEE802.1x MAB, DHCP Snooping, IP Source Guard, Dynamic ARP inspection, Adv., SFTP
Redundancy	ERPSv2, STP/RSTP/MSTP, Loop Protection, Port Trunk/801.1AX/802.3ad LACP
Time Management	NTP, IEEE 1588 Precision Time Protocol v2
MIB	ERPS MIB, MIB-II, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RMON MIB Group 1, 2, 3
Diagnostic	LLDP, Port Mirror, Ping, Port Statistic, Event Log

Interface

Ethernet Port	20X 100/1000M RJ45, 4x Combo TX/SFP Auto Negotiation 4x1000M SFP, DDM
System LED	2 x Power (P1/P2): Green On 1 x System Status: Ready:Green On, Fireware Updating:Green Blinking 1 x DI: Green On, 1 x Alarm: Red On 1 x Ring Status: Node Normal: Green On, Owner Normal: Green Blinking, Owner / Node Abnormal: Amber On, Ring Port Fail: Amber Blinking
Giga Ethernet Port LED	Link (Green On) Activity (Green Blinking), Speed 1000M(Amber On), Speed 10M/100M (Amber OFF)
Giga SFP LED	Port: Link (Green On), Activity (Green Blinking), 1000M: Speed 1000M(Amber On), Speed 100M(Off)
Console	1 x RJ45 based RS232 for System Configuration, Baud Rate. 115200.n.8.1
USB	1 x USB for Configuration/Firmware Update
Digital Output (Alarm)	1 x Digital Output: Dry Relay Output with 0.5A /24V DC
Power Input	1 x AC110/220V (90~264VAC)
Power Consummption	Max 19.8W@110VAC, 24.2W@220VAC (Operating with 20GT + 8GSFP)

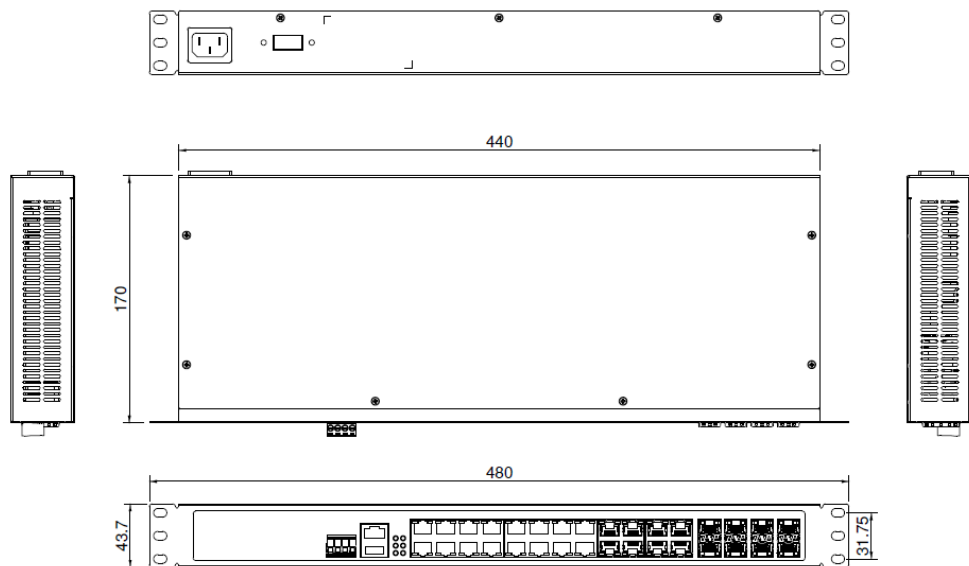
Mechanical

Installation	19", 1U Rackmount
Enclosure Material	Steel Metal
Dimension	480 x 43.7 x 170 mm(W x H x D, include rackmount ear)
Ingress Protection	IP30
Weight	3.4Kg

Environmental

Operating Temp. & Humidity	-40°C~70°C , 0%~95% Non- Condensing
Storage Temp.	-40°C~85°C
MTBF	445,000 hours
Warranty	5 years

Dimension Diagram



Ordering Information

Available Models	Description
IS-RG628-4C-4F-A	28 port L2+ industrial Ethernet Switch

Accessories

- 1. Gigabit SFP Modules

Package Checklist

- IS-RG628 Switch
- Quick Installation Guide (Printed)