

IS-RG628P-4F-24-A

Industrial 28G L2+ Rackmount PoE Ethernet Switch



The IS-RG628P Series are full Gigabit Ethernet Switches with 24 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-RG628P 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-RG628P Series prioritize, partition and optimize user's network while provide reliable and quality services. The IS-RG628P Series switches are suitable for access level network connection.



Key features

High Throughput Ethernet Switching

- ▶ 24 Giga PoE ports, and 4 Giga fiber ports
- ▶ DDM function for high quality fiber
- ▶ 16K MAC address table
- ▶ 1.5Mbytes Packet Buffer

Extreme PoE Capability

- ▶ 24-port IEEE 802.3af/at compliant PoE, up to 30W/port
- ▶ Up to 480W PoE power budget(54V@709)
- ▶ POE management including per-port Power Budget Control, POE Scheduling, PD Alive Check and PoE Status

Management Features

- ▶ Various configuration including CGI WebGUI, CLI, SNMP and RMON
- ▶ IEEE 1588V1/V2 PTP time management
- ▶ LLDP topology control
- ▶ 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-L7 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 Trackside EMC

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 and GVRP RFC 2460 Internet Protocol, Version 6 (IPv6) ITU-T G.8032 Ethernet ring protection switching(ERPS) IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP) IEEE 802.1S Multiple Spanning Tree Protocol (MSTP) IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.1x Port based Network Access Protocol IEEE 1588 Precision Time Protocol v1/v2
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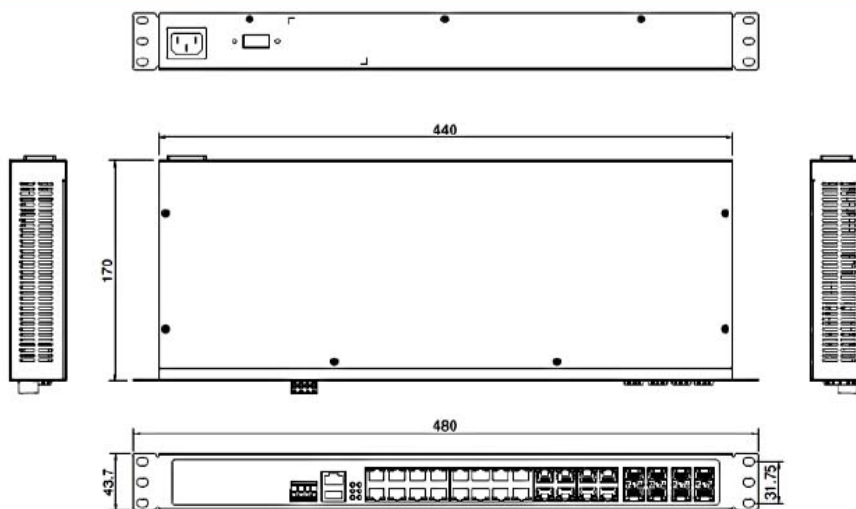
Performance

Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric
Number of MAC Address	16K
Packet Buffer Memory	1.5Mbytes
Transfer performance	10Base-T: 14,880pps, 100 Base-TX/FX: 148,800pps, 1000Base-TX/FX:1,488,100pps
VLAN	256 VLANS
VLAN ID	1-4094
Traffic Prioritize	8 Priority Queues per Port
Watchdog	Hardware-Based 10 seconds timer

Interface

Ethernet Port	24X 100/1000M RJ45, 4x Combo TX/SFP Auto Negotiation 4x1000M SFP, DDM
System LED	3x Power: Green On 1x System Status: Ready; Green On, Firmware Upgrading Green Blinking, 1 x Alarm: Red On 1 x Ring Status: Normal (Green On), Wrong Port (Green Blinking), Abnormal (Amber On), Ring Part 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	802.3af Activity (Green On), 802.3at Activity (Blue On)
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 1A 24V DC
Digital Input	1 x Digital Input. Low: 0~10V, High: 11~30V

Dimension Diagram



Ordering Information

Available Models	Description
IS-RG628P-4F-24-A	28 port L2+ industrial Ethernet Switch