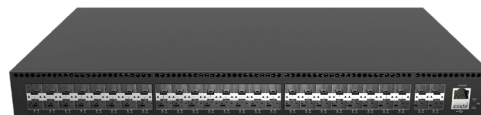


RP-GS8348IX-S

48-P SFP(100/1G) + 4-SFP(1G/2.5G/10G) L2+ Managed Full Fiber Switch



RP-GS8348IX-S is a Layer 2+ managed Gigabit switch which supports 48-P SFP (100/1G) combo + 4-SFP (1G/2.5G/10G), providing high-density performance and Layer 3 static routing with a 352 Gbps switching capacity.

RP-GS8348IX-S offers comprehensive end-to-end QoS, as well as flexible and rich management and security settings through SNMP, HTTP, and Telnet interfaces. It supports many L2 switch management functions, such as 802.1Q VLAN, 802.1x Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, and QoS functions. These features meet the high-speed, secure, and smart requirements of enterprise networks at a cost-effective price.

RP-GS8348IX-S comes with four 10GbE connectivity options. With a 10GbE uplink, the switch can handle extremely large amounts of data in a secure topology, connecting to an enterprise backbone or high-capacity servers. The powerful network security features also enable RP-GS8348IX-S to perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.

Features

- Supports IPv4/IPv6 static routing, DHCP server
- Supports GE, 2.5GE, and 10GE port aggregation, static and dynamic aggregation
- Supports access, trunk, hybrid mode, and VLAN classification
- Supports port-based, VLAN-based, and flow-based QinQ
- Supports many-to-one port mirroring
- Supports STP, RSTP, MSTP, G.8032 ERPS protocol
- IGMP snooping supports
- Supports class, remarking, SP and WRR queue scheduling, ingress/egress port-based rate-limiting, and policy-based QoS
- Supports Dot1x, port authentication, MAC authentication, RADIUS service, port security, IP source guard, IP/Port/MAC binding, ARP check, and ARP packet filtering for illegal users and port isolation
- Supports LLDP, user management, login authentication, SNMPV1/V2C/V3, web management, Syslog, RMON alarm, event, and history records, NTP, temperature monitoring, Ping, Tracert, optical transceiver DDM function, TFTP Client, Telnet Server, and SSH Server
- Firmware update, configuration backup/restore through Web GUI, FTP, and TFTP

Specifications

Standards	<ul style="list-style-type: none"> • IEEE 802.3/3u 10Base-T, 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE 802.3x Flow Control capability • IEEE802.3az Energy Efficient Ethernet • IEEE 802.1D Spanning Tree Protocol • IEEE 802.1w Rapid Spanning Tree Protocol • IEEE 802.1Q VLAN • ITU-T G.8032 ERPS • IEEE 802.1X Port Authentication Network Control • IEEE 802.1ab LLDP • IEEE 802.3ad LACP
Interface	<ul style="list-style-type: none"> • 4 x 1G/2.5G/10G SFP+ slots uplink • 48 x 100/1000M SFP ports • 1 x RJ45 console port • 1 x USB2.0 port for switch basic management and setup
Size of RAM	<ul style="list-style-type: none"> • 512MB
Size of Flash	<ul style="list-style-type: none"> • 512MB
Switching Capacity	<ul style="list-style-type: none"> • 336Gbps
Forwarding Capacity	<ul style="list-style-type: none"> • 499.9Mpps
Jumbo frames	<ul style="list-style-type: none"> • Support 10Kbytes
MAC Table	<ul style="list-style-type: none"> • 16K MAC addresses
Buffer	<ul style="list-style-type: none"> • 12M bit
Layer 2 function	
Port aggregation	<ul style="list-style-type: none"> • Support GE port aggregation • Support 2.5GE aggregation • Support static aggregation • Support LACP dynamic aggregation • Up to 64 aggregation groups and up to 8 ports per group
Port features	<ul style="list-style-type: none"> • Support IEEE802.3x flow control • Support interface counters • Support port isolation • Port mirroring (One-to-One, Many-to-One) • Support loop detection (Port-based; VLAN-based) • Support broadcast storm suppression (broadcast; unknown multicast; unknown unicast)
VLAN	<ul style="list-style-type: none"> • IEEE802.1Q tagged VLAN • Mac based VLAN • IP based VLAN • Protocol based VLAN • Voice VLAN, specially divide VLAN for user voice data flow • Private VLAN, divide a VLAN broadcast domain into multiple

	<ul style="list-style-type: none"> subdomains to form a double-layer VLAN structure VLAN range: 1-4094 Support access mode/trunk mode/hybrid mode
GVRP	<ul style="list-style-type: none"> Normal mode Fixed mode Forbidden mode
QinQ	<ul style="list-style-type: none"> Port-based QinQ VLAN-based QinQ VLAN mapping Flow-based QinQ
LLDP	<ul style="list-style-type: none"> Link Layer Discovery Protocol Med
SPAN	<ul style="list-style-type: none"> Number of Sessions: 7 Many-to-one
RSPAN	<ul style="list-style-type: none"> Remote Switch Port Analyzer
MSTP	<ul style="list-style-type: none"> 802.1D STP 802.1W RSTP 802.1S MSTP BPDU Guard Number of Single Ring Device Connections: 20
ERPS G.8032	<ul style="list-style-type: none"> Major ring Sub ring Recovery time $\leq 20\text{ms}$ Number of Single Ring Device Connections: No limit
QoS	<ul style="list-style-type: none"> QoS Class, Remarking Support SP, WRR Queue Scheduling Ingress Port-based Rate-limit Egress Port-based Rate-limit Egress port-queue shaper Policy-based QoS Port Queue Numbers: 8
DHCPv4 Snooping	<ul style="list-style-type: none"> DHCP snooping trust port DHCP snooping option-82 DHCP snooping circuit-id and remote-id customized
L2 Multicast	
IGMP	<ul style="list-style-type: none"> IGMP v1, v2, v3
IGMP Snooping	<ul style="list-style-type: none"> Internet Group Management Protocol Snooping Fast Leave Multicast Table Size: 1K
PIM-SM	<ul style="list-style-type: none"> Protocol Independent Multicast-Sparse Mode
Security features	
ACL	<ul style="list-style-type: none"> IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL Time Range

	<ul style="list-style-type: none"> ● ACL apply on VLAN ● ACL entries, include input and output
802.1x	<ul style="list-style-type: none"> ● Port access control ● Mac-address access control ● RADIUS server
Port-security	<ul style="list-style-type: none"> ● Port-security
IP source guard	<ul style="list-style-type: none"> ● IP Source Guard, Port-based IP/Mac Binding Access
ARP-check	<ul style="list-style-type: none"> ● Support ARP-check and ARP packet filtering for illegal users
DAI	<ul style="list-style-type: none"> ● Dynamic ARP Inspection
Anti-gateway ARP Spoofing	<ul style="list-style-type: none"> ● Prevent Gateway ARP Spoofing
Ddos	<ul style="list-style-type: none"> ● Ddos attack protection
Access control	<ul style="list-style-type: none"> ● Support Telnet/SSH/HTTP/HTTPS user access control
AAA	<ul style="list-style-type: none"> ● RADIUS authentication access switch ● TACACS authentication access switch ● Authorization
Reliability	
Loop Detect	<ul style="list-style-type: none"> ● Loop detect, based on port or VLAN
EFM	<ul style="list-style-type: none"> ● The Ethernet in the first mile, 802.3ah
Management & maintenance functions	
Dual Stack	<ul style="list-style-type: none"> ● IPv4 and IPv6 Dual Stack Management
System Log Management	<ul style="list-style-type: none"> ● Syslog Level 7 to 0 ● Corresponding Debug/Info/Notice/Warning/ Err/ Critical/ Alert ● Support connecting up to 3 Servers ● For IPv4 and IPv6
User Management	<ul style="list-style-type: none"> ● Support password protection, support MD5/SHA256/SHA512 algorithm ● Local Management of User Privilege ● Remote authorization by RADIUS or TACACS ● Enable privilege protection ● User password complexity requirements ● User login fail protection ● User Privilege Level 0 to 15
Login Service Management	<ul style="list-style-type: none"> ● Up to 8 users online simultaneously ● Access control based on IPv4 or IPv6 ACL
Firmware Management	<ul style="list-style-type: none"> ● Firmware upgraded by WEB ● Firmware upgraded by CLI ● Dual partition
Web Management	<ul style="list-style-type: none"> ● Web Management ● Support HTTP V1.1 ● Support HTTPS ● For IPv4 and IPv6
CLI management	<ul style="list-style-type: none"> ● Console/Telnet command line management
Fault Detection	<ul style="list-style-type: none"> ● Ping/Traceroute, For IPv4 and IPv6 ● Optical transceiver DDM ● One click fault information collection

	<ul style="list-style-type: none"> • Cable detection
DNS	<ul style="list-style-type: none"> • Domain Name System
NTP	<ul style="list-style-type: none"> • Network Time Protocol, For IPv4 and IPv6 • Support domain name configuration
Configuration Import /Export	<ul style="list-style-type: none"> • Network Time Protocol, For IPv4 and IPv6
sFlow	<ul style="list-style-type: none"> • Support domain name configuration
SNMP	<ul style="list-style-type: none"> • Network Time Protocol, For IPv4 and IPv6
MQTT	<ul style="list-style-type: none"> • Support domain name configuration
RMON	<ul style="list-style-type: none"> • Network Time Protocol, For IPv4 and IPv6
Dual partition management	<ul style="list-style-type: none"> • Support domain name configuration
Application Protocol Functions	
Telnet server	<ul style="list-style-type: none"> • Support telnet server for IPv4 and IPv6
Telnet client	<ul style="list-style-type: none"> • Support telnet client for IPv4 and IPv6
SCP (Secure Copy Protocol)	<ul style="list-style-type: none"> • SCP client/server for IPv4 and IPv6
SFTP	<ul style="list-style-type: none"> • sftp client/server for IPv4 and IPv6
SSH server	<ul style="list-style-type: none"> • Support login based on user password-SSH2, support IPv4, IPv6 • Support public key-based login
TACACS	<ul style="list-style-type: none"> • Support TACACS (the terminal access controller accesses the control system)
TFTP	<ul style="list-style-type: none"> • Support TFTP Client
Layer 3 features	
Static Route	<ul style="list-style-type: none"> • Support VLAN interface and route port • IPv4 static routing table entry configuration • ARP dynamic learning and static configuration • IPv6 static routing table entry configuration • Neighbor discovery and static configuration • Routing prefix table size 4k for IPv4, for IPv6 divide by 4
DHCPv4 Client	<ul style="list-style-type: none"> • Dynamic host configuration protocol for IPv4
DHCPv6 Client	<ul style="list-style-type: none"> • Dynamic host configuration protocol for IPv6
DHCPv4 Relay	<ul style="list-style-type: none"> • DHCP Relay for IPv4
DHCPv4 Server	<ul style="list-style-type: none"> • DHCP Server for IPv4
Mechanical structure	
Power surge protection	<ul style="list-style-type: none"> • 4KV
Ethernet ports surge protection	<ul style="list-style-type: none"> • 4KV
Power Consumption	<ul style="list-style-type: none"> • ≤56W
Power Supply	<ul style="list-style-type: none"> • Internal Power supply 100~240VAC, 50/60 Hz
Environment	<ul style="list-style-type: none"> • Operating temperature: 0°C to 50°C • Operating Humidity: 10 to 90% (Non-Condensing)
Dimension	<ul style="list-style-type: none"> • 440 x 300 x 44mm (WxDxH)
Certification	<ul style="list-style-type: none"> • CE, FCC

Ordering information

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