

RP-PG83080I-4F-S

8-P Gigabit + 4-SFP(1G/2.5G) slot L2+ Managed PoE Switch

RP-PG83080I-4F-S is a Layer 2+ gigabit managed PoE switch with 8-port 10/100/1000Base-T RJ45 PoE ports and 4*1G/2.5G SFP ports. Its powerful Layer 2+ management and high-performance switching offer a cost-effective Gigabit Ethernet solution for enterprise networks.

RP-PG83080I-4F-S supports Power over Ethernet (PoE) applications. With a total power capacity of up to 120 watts, it can efficiently power various PoE devices, making it a quick, safe, and cost-effective PoE network solution for both small businesses and enterprises. Its comprehensive QoS features ensure prioritization and smooth data traffic management, while the rich management provide administrators with the flexibility to tailor the network to their specific requirements, bolstering overall data security.

With its comprehensive QoS, flexible management, and enhanced security settings, as well PoE support, the RP-PG83080I-4F-S is an excellent choice for modern enterprise networks. It delivers reliable and cost-effective Gigabit Ethernet capabilities to meet the evolving demands of businesses adopting advanced IT technologies.



Features

- Complies with IEEE 802.3at, IEEE 802.3af. Max output power: 30W (PoE+).
- Smart and standard PoE chipset for automatic PD equipment detection, preventing damage.
- Layer 3 features: IPv4/IPv6 static routing, DHCPv4/ DHCPv6 client, DHCPv4 relay, DHCP relay.
- Port features: Supports port aggregation, IEEE802.3x flow control, port isolation, port mirroring, loop detection and broadcast storm suppression
- VLAN: Supports IEEE802.1Q tagged VLAN, mac based VLAN, IP based VLAN, protocol based VLAN, voice VLAN and private VLAN.
- QinQ: Supports port-based, VLAN-based and flow-based QinQ
- Supports GVRP/LLDP/SPAN/RSPAN/DHCPv4 snooping
- Layer 2 ring network protocol: Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring

- Multicast: IGMP snooping, IGMP v1, v2, v3, PIM-SM
- QoS: QoS class, remarking, Supports SP, WRR queue scheduling, Ingress/Egress port-based rate-limit and policy-based QoS
- Security: Supports ACL, 802.1x, port-security, IP source guard, ARP-check, DAI, anti-gateway ARP spoofing, Ddos attack protection, telnet/SSH/HTTP/HTTPS user access control and AAA.
- Reliability: Loop detect based on port or VLAN, the Ethernet in the first mile 802.3ah
- Management: Supports IPv4/IPv6 dual stack management, system log management, user management, login service management, firmware management, web management, CLI management, fault detection, DNS,NTP, sFlow, SNMP, MQTT, RMON and dual partition management.
- Application protocol: Supports telnet server, telnet client, SCP, SFTP, SSH server, TACACS and TFTP client

Specifications

Standard	• IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE802.3x Flow Control and Back Pressure • 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 • IEEE 802.3af • IEEE 802.3at	
Interface	• 8*10/100/1000Base-T RJ45 PoE • 4*1000/2500Base-X SFP	
Size of RAM	• 512MB	
Size of Flash	• 512MB	
Management port	• 1*RJ45 Console port (115200,8,N,1)	
LED Indicators		
P (Power indicator)	• Off: the device is power off or failed	• On: the device power on is normal
S (System status indicator)	• Blinking: device initialization	• On: device on normal operation

1-8 (Copper ports indicators) Green	• Off: ports link down
	• On: ports link up
	• Blinking: data on TX/RX
1-8(PoE status indicators) Yellow	• Off: PoE not working
	• On: PoE working
9-12 (Fiber ports indicators) Green	• Off: ports link down
	• On: ports link up
	• Blinking: data on TX/RX
Power parameter	
Input voltage	• DC 52V
Total power consumption	• Full loading ≤120W
Over-current protection	• Support
Layer 2 functions	
Port aggregation	• 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	• 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)
Mac-address table management	• Support static Mac-address management • Support dynamic Mac-address Management • Support filtering Mac-address • Support MAC limit based on port and VLAN • Support MAC flapping based on port and VLAN • 16K Mac-address table size
VLAN	• 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 subdomains to form a double-layer VLAN structure • VLAN range: 1-4094

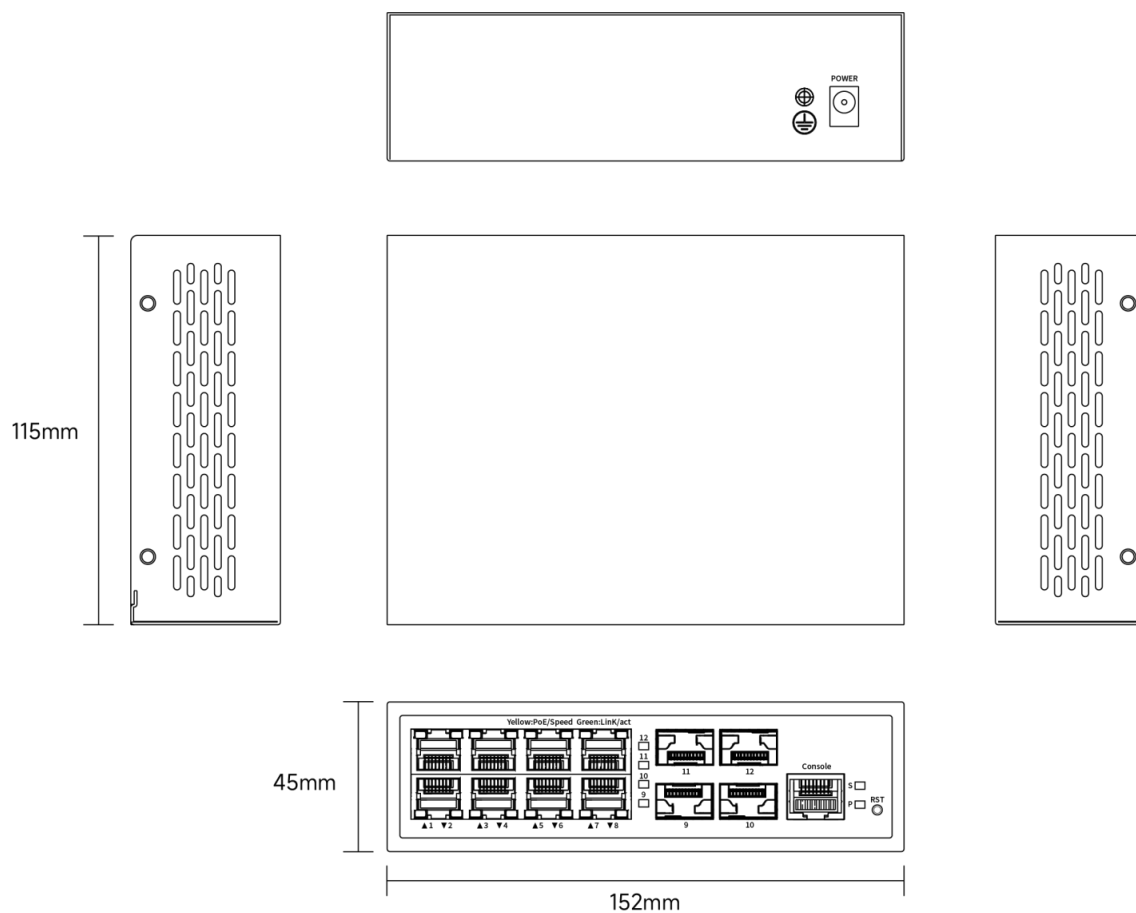
	• Support access mode/trunk mode/hybrid mode
GVRP	• Normal mode • Fixed mode • Forbidden mode
QinQ	• Port-based QinQ • VLAN-based QinQ (VLAN-stacking; VLAN-mapping) • Flow-based QinQ
LLDP	• LLDP (Link Layer Discovery Protocol) • Med
SPAN	• Number of Sessions: 7 • Many-to-one
RSPAN	• Remote Switch Port Analyzer
MSTP	• 802.1D STP • 802.1W RSTP • 802.1S MSTP • BPDU Guard • Number of Single Ring Device Connections: 20
ERPS G.8032	• Major ring • Sub ring • Recovery time ≤20ms • Number of Single Ring Device Connections: No limit
QoS	• 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	• DHCP snooping trust port • DHCP snooping option-82 • DHCP snooping circuit-id and remote-id customized
L2 Multicast	
IGMP	• IGMP v1, v2, v3
IGMP Snooping	• Internet Group Management Protocol Snooping • Fast Leave • Multicast Table Size: 1K
PIM-SM	• Protocol Independent Multicast-Sparse Mode
Security features	
ACL	• IP Standard ACL • MAC extend ACL • IP extend ACL • IPv6 ACL • Time Range • ACL apply on VLAN

	• ACL entries, include input and output
802.1x	• Port access control • Mac-address access control • RADIUS server
Port-security	• Port-security
IP source guard	• IP Source Guard, Port-based IP/Mac Binding Access
ARP-check	• Support ARP-check and ARP packet filtering for illegal users
DAI	• Dynamic ARP Inspection
Anti-gateway ARP Spoofing	• Prevent Gateway ARP Spoofing
Ddos	• Ddos attack protection
Access control	• Support Telnet/SSH/HTTP/HTTPS user access control
AAA	• RADIUS authentication access switch • TACACS authentication access switch • Authorization
Reliability	
Loop Detect	• Loop detect, based on port or VLAN
EFM	• The Ethernet in the first mile, 802.3ah
Management & Maintenance functions	
Dual Stack	• IPv4 and IPv6 Dual Stack Management
System Log Management	• 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	• 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	• Up to 8 users online simultaneously • Access control based on IPv4 or IPv6 ACL
Firmware Management	• Firmware upgraded by WEB • Firmware upgraded by CLI • Dual partition
Web Management	• Web Management • Support HTTP V1.1 • Support HTTPS

	• For IPv4 and IPv6
CLI management	• Console/Telnet command line management
Fault Detection	• Ping/Traceroute, For IPv4 and IPv6 • Support optical transceiver DDM function • One click fault information collection • Cable detection
DNS	• Domain Name System
PoE management	• Support 802.3af/802.3at • Support PD watchdog • Support PoE priority management • Support Max PoE power configuration for each port • Support alarm threshold configuration • Support reserved power configuration • Support PoE schedule • Support PoE legacy mode
Dual partition management	• Support dual partition switching
NTP	• Network Time Protocol, For IPv4 and IPv6 • Support domain name configuration
Configuration import/export	• Support FTP/TFTP remote import/export
sFlow	• Sampled flow
SNMP	• Version SNMPV2C/V3
MQTT	• Message Queuing Telemetry Transport
RMON	• Support RMON (Remote Monitoring) alarm
Application Protocol Functions	
Telnet server	• Support telnet server for IPv4 and IPv6
Telnet client	• Support telnet client for IPv4 and IPv6
SCP (Secure Copy Protocol)	• SCP client/server for IPv4 and IPv6
SSH server	• Support login based on user password-SSH2, support IPv4, IPv6 • Support public key-based login
TACACS	• Support TACACS(the terminal access controller accesses the control system)
TFTP	• Support TFTP Client
Layer 3 functions	
Static Route	• 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	• Dynamic host configuration protocol for IPv4
DHCPv6 Client	• Dynamic host configuration protocol for IPv6
DHCPv4 Relay	• DHCP Relay for IPv4
DHCPv4 Server	• DHCP Server for IPv4
Switching features	
Switching capacity	• 36Gbps
Packet forwarding rate	• 53.6Mpps
MAC address table	• 16K
VLAN	• 4K
Buffer	• 12Mbit
Forwarding delay	• <5us
Jumbo Frame	• Support 10Kbytes
MDI/MDIX	• Support
Watchdog	• Support
Mechanical structure	
Installation method	• Desktop, Rack-mount optional
Dimension(W*D*H)mm	• 152*115*45mm
Operating environment	
Operating temperature	• 0°C~+50°C
Storage/transportation temperature	• -10°C~+70°C
Relative humidity	• Operation humidity: 10%-90%RH • Storage humidity: 5%-95%RH
Certification	• CE/FCC

Diagram



Ordering information

RP-PG83080I-4F-S 8-P Gigabit + 4-SFP(1G/2.5G) slot L2+ Managed PoE Switch (120w)