

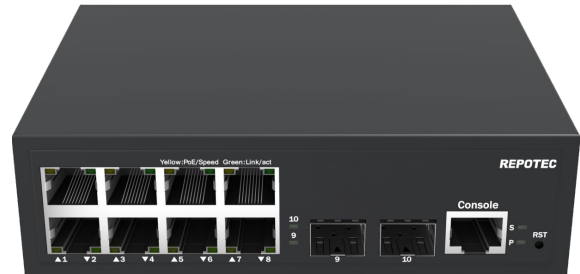
RP-G83080I-2F-S

8-P Gigabit + 2-SFP(1G/2.5G) slot L2+ Managed Switch

RP-G83080I-2F-S is a Layer 2+ fully managed gigabit switch designed for small to medium-sized enterprise networks. It features 8× 10/100/1000Base-T RJ45 ports and 2× 1G/2.5G SFP slots, delivering high-performance switching with wire-speed data transmission.

With Layer 3 static routing, VLAN flexibility, and advanced QoS, RP-G83080I-2F-S ensures efficient traffic management for VoIP, video conferencing, and enterprise applications. Robust security features, including 802.1X, RADIUS, and port security, help safeguard network integrity.

RP-G83080I-2F-S supports comprehensive management tools such as SNMP, web-based UI, CLI, and IPv6 support enable easy configuration and monitoring. It also supports firmware updates, configuration backup/restoration, and redundancy protocols for a reliable, cost-effective networking solution.



Features

- Supports GE ports, 2.5GE port aggregation, static and dynamic aggregation
- Supports access, truck, hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN
- QinQ: Supports port-based, VLAN-based and flow-based QinQ
- Port Mirroring: Many to one port mirroring
- Layer 2 ring network protocol: Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: IGMP snooping
- QoS: QoS class, remarking, Supports SP, WRR queue scheduling, Ingress/Egress port-based rate-limit and policy-based QoS
- Security: Support Dot1x, port authentication, mac authentication, RADIUS service; Support port-security, ip source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation
- Management: Supports LLDP, user management and login authentication; SNMPV1/V2C/V3; web management, HTTP1.1, HTTPS; Syslog and alarm grading; RMON (Remote Monitoring) alarm, event and history record; NTP, temperature monitoring; Ping, Tracert and optical transceiver DDM function; Supports TFTP Client, Telnet Server, SSH Server and IPv6 Management
- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

Specifications

Standard	<ul style="list-style-type: none"> ● 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 	
Interface	<ul style="list-style-type: none"> ● 8*10/100/1000Base-T RJ45 ● 2*1000/2500Base-X SFP 	
Management port	<ul style="list-style-type: none"> ● 1*RJ45 Console port (115200,8,N,1) 	
Size of RAM	<ul style="list-style-type: none"> ● 512MB 	
Size of Flash	<ul style="list-style-type: none"> ● 512MB 	
LED Indicators		
P (Power indicator)	<ul style="list-style-type: none"> ● Off: the device is power off or failed 	<ul style="list-style-type: none"> ● On: the device power on is normal
S (System status indicator)	<ul style="list-style-type: none"> ● Blinking: device initialization 	<ul style="list-style-type: none"> ● On: device on normal operation
1-8 (Copper ports indicators) Green	<ul style="list-style-type: none"> ● Off: ports link down 	
	<ul style="list-style-type: none"> ● On: ports link up 	
	<ul style="list-style-type: none"> ● Blinking: data on TX/RX 	
1-8 (Copper speed indicators) Yellow	<ul style="list-style-type: none"> ● Off: ports on 10/100M 	
	<ul style="list-style-type: none"> ● On: ports on 1000M 	
9-10 (Fiber ports indicators) Green	<ul style="list-style-type: none"> ● Off: ports link down 	
	<ul style="list-style-type: none"> ● On: ports link up 	
	<ul style="list-style-type: none"> ● Blinking: data on TX/RX 	
Power parameter		
Input voltage	<ul style="list-style-type: none"> ● DC input 12-58V 	
Total power consumption	<ul style="list-style-type: none"> ● Full loading ≤8.7W 	
Over-current protection	<ul style="list-style-type: none"> ● Support 	
Layer 2 functions		

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)
Mac-address table management	<ul style="list-style-type: none"> ● 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
VLAN	<ul style="list-style-type: none"> ● IEEE802.1Q tagged VLAN ● <u>Mac based VLAN</u> ● <u>IP based VLAN</u> ● <u>Protocol based VLAN</u> ● 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	<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 ≤20ms ● 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
Group address	<ul style="list-style-type: none"> ● Support group address
Security functions	
ACL	<ul style="list-style-type: none"> ● 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	<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 TARCAS ● 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
RMON	<ul style="list-style-type: none"> ● Support RMON(Remote Monitoring) alarm
Firmware upgrade	<ul style="list-style-type: none"> ● Firmware upgrade
Fault Detection	<ul style="list-style-type: none"> ● Ping/Traceroute, For IPv4 and IPv6 ● Optical transceiver DDM ● One click fault information collection ● 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"> ● FTP/TFTP based remote configuration import and export
sFlow	<ul style="list-style-type: none"> ● Sampled flow
SNMP	<ul style="list-style-type: none"> ● Version SNMPV2C/V3
MQTT	<ul style="list-style-type: none"> ● Message Queuing Telemetry Transport
RMON	<ul style="list-style-type: none"> ● Support RMON (Remote Monitoring) alarm
Dual partition management	<ul style="list-style-type: none"> ● Support dual partition switching
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"> ● sftp client/server 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)
sflow	<ul style="list-style-type: none"> ● Support network traffic analysis
TFTP	<ul style="list-style-type: none"> ● Support TFTP Client
Layer 3 functions	
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
Switching features	
Switching capacity	<ul style="list-style-type: none"> ● 26Gbps
Packet forwarding rate	<ul style="list-style-type: none"> ● 38.6Mpps
MAC address table	<ul style="list-style-type: none"> ● 16K
VLAN	<ul style="list-style-type: none"> ● 4K
Buffer	<ul style="list-style-type: none"> ● 12Mbit
Forwarding delay	<ul style="list-style-type: none"> ● <5us
Jumbo Frame	<ul style="list-style-type: none"> ● Support 10Kbytes
MDX/MIDX	<ul style="list-style-type: none"> ● Support
Watchdog	<ul style="list-style-type: none"> ● Support
Mechanical structure	
Installation method	<ul style="list-style-type: none"> ● Desktop; Rack-mount optional

Dimension(W*D*H)mm	<ul style="list-style-type: none"> ● 152*115*44mm
Operating environment	
Operating temperature	<ul style="list-style-type: none"> ● 0°C~+50°C
Storage/transportation temperature	<ul style="list-style-type: none"> ● -10°C~+70°C
Relative humidity	<ul style="list-style-type: none"> ● Operation humidity: 10%-90%RH ● Storage humidity: 5%-95%RH
Certification	<ul style="list-style-type: none"> ● CE/FCC

Ordering information

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