

RP-G83168I-4F

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



RP-G83168I-4F is a powerful Layer 2+ gigabit managed switch, featuring 16 Gigabit Ethernet ports, 8 TP/SFP (1G) combo ports, and 4 SFP (1G/2.5G) slots. With a remarkable 68Gbps switching capacity, this switch excels in high-density performance, making it an ideal solution for enterprises. Its versatile port options provide flexibility for various networking needs, catering to modern business demands.

Equipped with comprehensive end-to-end Quality of Service (QoS) and flexible management capabilities, RP-G83168I-4F meets the requirements for high-speed, secure, and smart networking scenarios. It empowers administrators to prioritize critical data and applications, ensuring smooth data delivery even during peak network traffic. The switch's powerful security features enhance data protection and enable effective data traffic control, making it suitable for ISP and enterprise applications like VoIP, video streaming, and multicast.

RP-G83168I-4F stands out with its Layer 2+ capabilities, offering efficient data handling and optimal network performance. Administrators benefit from its rich management features, allowing them to customize the network according to their specific needs. The cost-effective design and high-density performance make RP-G83168I-4F a reliable choice for modern enterprise networks. Its ability to support diverse applications and adapt to evolving networking needs makes it an invaluable asset for businesses seeking a seamless and future-proof networking solution.

Features

- Supports IPv4/IPv6 static routing, DHCP server
- Supports GE ports, 2.5GE port aggregation, static and dynamic aggregation
- Supports access, trunk, and hybrid mode VLAN classification
- Port-based, VLAN-based, Port Mirroring and flow-based QinQ
- Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: Supports IGMP snooping
- Supports SP, WRR queue scheduling, rate-limiting, and policy-based QoS
- Dot1x, port authentication, MAC authentication, RADIUS service
- Supports LLDP, user management, login authentication; SNMPV1/V2C/V3; web

management.

- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

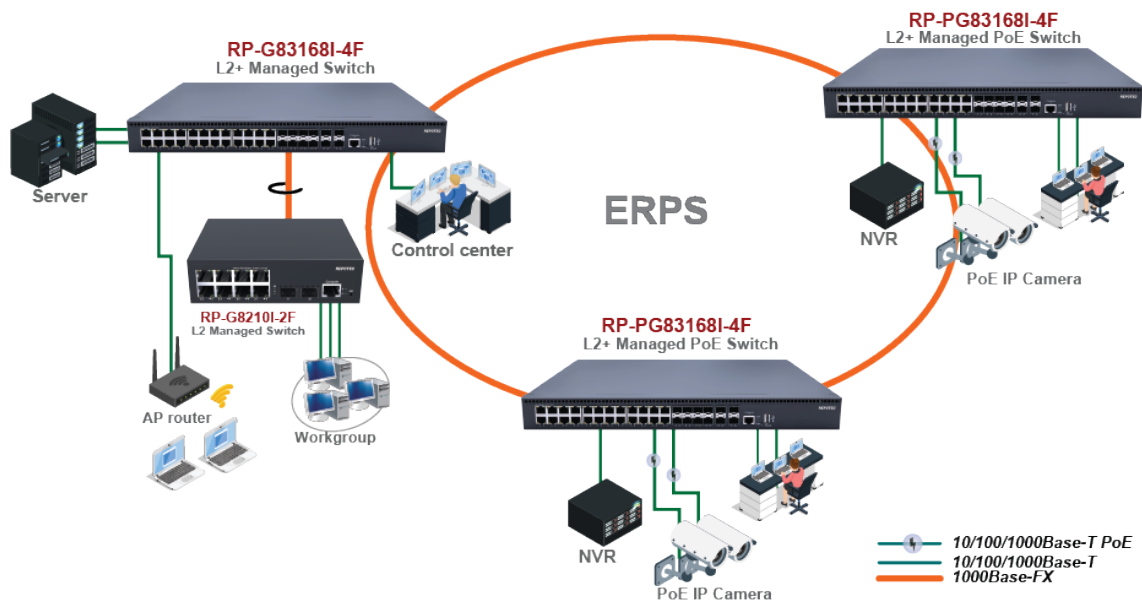
Specifications

Standards	<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">• 16 x 10/100/1000Base-T RJ45 ports• 8*1G SFP/RJ45 COMBO ports• 4 x 1G/2.5G Base-X SFP slots
Management port	<ul style="list-style-type: none">• 1 x RJ45 Console port
Switching capacity	<ul style="list-style-type: none">• 68Gbps
Packet forwarding rate	<ul style="list-style-type: none">• 101Mpps
MAC address table	<ul style="list-style-type: none">• 16K
Buffer	<ul style="list-style-type: none">• 12M bit
Layer 2 function	
Port aggregation	<ul style="list-style-type: none">• Support gigabit port, 2.5GE port aggregation• Support static and dynamic aggregation
Port features	<ul style="list-style-type: none">• Support IEEE802.3x flow control, Port traffic statistics, port isolation• Support network storm suppression based on port bandwidth percentage
VLAN	<ul style="list-style-type: none">• Support access, trunk and hybrid mode
VLAN Classification	<ul style="list-style-type: none">• Mac Based VLAN• IP Based VLAN• Protocol Based VLAN
QinQ	<ul style="list-style-type: none">• Basic QinQ (Port-based QinQ)• Flexible Q in Q(VLAN-based QinQ)• QinQ(Flow-based QinQ)
Port mirroring	<ul style="list-style-type: none">• Many to one (Port Mirroring)
Ring network protocol	<ul style="list-style-type: none">• Support STP 、RSTP 、MSTP• Support G.8032 ERPS protocol 、single ring, sub ring and other ring
DHCP	<ul style="list-style-type: none">• DHCP Client• DHCP Snooping
Multicast	<ul style="list-style-type: none">• IGMP snooping

ACL	<ul style="list-style-type: none"> • IP Standard ACL • MAC extend ACL • IP extend ACL
QoS	<ul style="list-style-type: none"> • Support QoS Class, Remarking • Support SP, WRR queue scheduling • Ingress Port-based Rate-limit • Egress Port-based Rate-limit • Support Policy-based QoS
Security	<ul style="list-style-type: none"> • Support Dot1x , port authentication , MAC authentication , RADIUS service • Support port-security • Support IP Source Guard , IP/Port/MAC binding • Support ARP-check and ARP packet filtering for illegal users • Support port isolation
Management & maintenance	<ul style="list-style-type: none"> • Support LLDP • Support user management and login authentication • Support SNMPV1/V2C/V3 • Support web management, HTTP1.1, HTTPS • Support Syslog and alarm grading • Support RMON(Remote Monitoring) alarm, event and history record • Support NTP • Support temperature monitoring • Support Ping, Tracert • Support optical transceiver DDM function • Support TFTP Client • Support Telnet Server • Support SSH Server • Support IPv6 Management • Support FTP, TFTP, WEB upgrading
Layer 3 features	
DHCP server	<ul style="list-style-type: none"> • DHCP server
ARP	<ul style="list-style-type: none"> • ARP table aging
IPv4/IPv6	<ul style="list-style-type: none"> • Static routing
Mechanical structure	
Power supply	<ul style="list-style-type: none"> • VAC input • Rated voltage range: 100-240V • Frequency: 50/60Hz
Fan	<ul style="list-style-type: none"> • Support fan speed control
Consumption	<ul style="list-style-type: none"> • ≤40W
Power surge protection	<ul style="list-style-type: none"> • 6KV, IEC 61000-4-5 Level X (8/20us)
Ethernet ports surge protection	<ul style="list-style-type: none"> • 4KV, IEC 61000-4-5 Level 4 (10/700us)
Dimension	<ul style="list-style-type: none"> • 440 x 245 x 44mm (W*D*H)

Environment	<ul style="list-style-type: none"> Operating temperature: 0°C~+50°C Operating Humidity: 10 to 90% (Non-Condensing)
Certification	<ul style="list-style-type: none"> CE/FCC

Application



Ordering information

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