RP-PG83168I-4F

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

RP-PG83168I-4F is a Layer 2+ full gigabit managed PoE switch featuring 16 Gigabit Ethernet ports, 8 TP/SFP (1G) combo ports, and 4 SFP (1G/2.5G) slots. With an impressive 68Gbps switching capacity, this switch delivers high-density performance, making it an ideal choice for enterprise networks. Its comprehensive end-to-end Quality of Service (QoS) and flexible management ensure the network meets the demands of high-speed, secure, and intelligent networking.

RP-PG83168I-4F stands out as a versatile and reliable solution for SMBs seeking a cost-effective PoE network. With a total power consumption of up to 400W, it offers ample power to support various PoE devices. Its enhanced data security features contribute to safeguarding critical data and information within the network. The RP-PG83168I-4F proves to be an efficient and dependable solution for businesses requiring effective network traffic management and enhanced data security.

RP-PG83168I-4F is a powerful, reliable PoE switch catering to SMBs' network needs with high-density performance and comprehensive QoS. Its robust security features ensure effective data traffic control for ISP and enterprise applications, making it an ideal choice for modern network deployments.

Features

- Complies with IEEE 802.3at, max output power per port 30W(PoE+)
- Smart and standard PoE chipset for automatic PD equipment detection, preventing damage.
- 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
- Supports port-based, VLAN-based and flow-based QinQ
- Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Supports IGMP snooping , Port Mirroring
- Supports SP, WRR queue scheduling, rate-limiting, and policy-based QoS
- Supports 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	
Standards	- 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 PoE - IEEE 802.3at PoE+
Interface	24 x 10/100/1000Base-T RJ45 PoE ports 4 x 1G/2.5G Base-X SFP+
Management port	1 x RJ45 Console port
PoE	- Complies with IEEE 802.3at, IEEE802.3af standard. Max output power per port can reach 30W(PoE+) - Support 1/2(+) 3/6(-) Endspan - Support standard & non-standard PD
Switching capacity	68Gbps
Packet forwarding rate	101Mpps
MAC address table	16K
Buffer	12M bit
Layer 2 function	
Port aggregation	- Support gigabit port, 2.5GE and 10GE port aggregation - Support static and dynamic aggregation
Port features	- Support IEEE802.3x flow control, Port traffic statistics, port isolation - Support network storm suppression based on port bandwidth percentage
VLAN	Support access, trunk and hybrid mode
VLAN Classification	- Mac Based VLAN - IP Based VLAN - Protocol Based VLAN
QinQ	- Basic QinQ (Port-based QinQ) - Flexible Q in Q(VLAN-based QinQ) - QinQ(Flow-based QinQ)
Port mirroring	Many to one (Port Mirroring)
Ring network protocol	Support STP、RSTP、MSTP

	• Support G.8032 ERPS protocol，single ring, sub ring and other ring
DHCP	• DHCP Client • DHCP Snooping
Multicast	• IGMP snooping
ACL	• IP Standard ACL • MAC extend ACL • IP extend ACL
QoS	• Support QoS Class, Remarking • Support SP, WRR queue scheduling • Ingress Port-based Rate-limit • Egress Port-based Rate-limit • Support Policy-based QoS
Security	• 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	• 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 PoE management • Support FTP, TFTP, WEB upgrading
Layer 3 features	
DHCP server	• DHCP server
ARP	• ARP table aging
IPv4/IPv6	• Static routing
Mechanical structure	
Power supply	• VAC input • Rated voltage range: 100-240V • Frequency: 50/60Hz

Fan	● Support fan speed control
PoE Power	● Total PoE power budget 400W
Power surge protection	● 6KV, IEC 61000-4-5 Level X (8/20us)
Ethernet ports surge protection	● 4KV, IEC 61000-4-5 Level 4 (10/700us)
Dimension	● 440 x 245 x 44mm (W*D*H)
Environment	● Operating temperature: 0°C~+50°C ● Operating Humidity: 10 to 90% (Non-Condensing)
Certification	● CE/FCC

Application
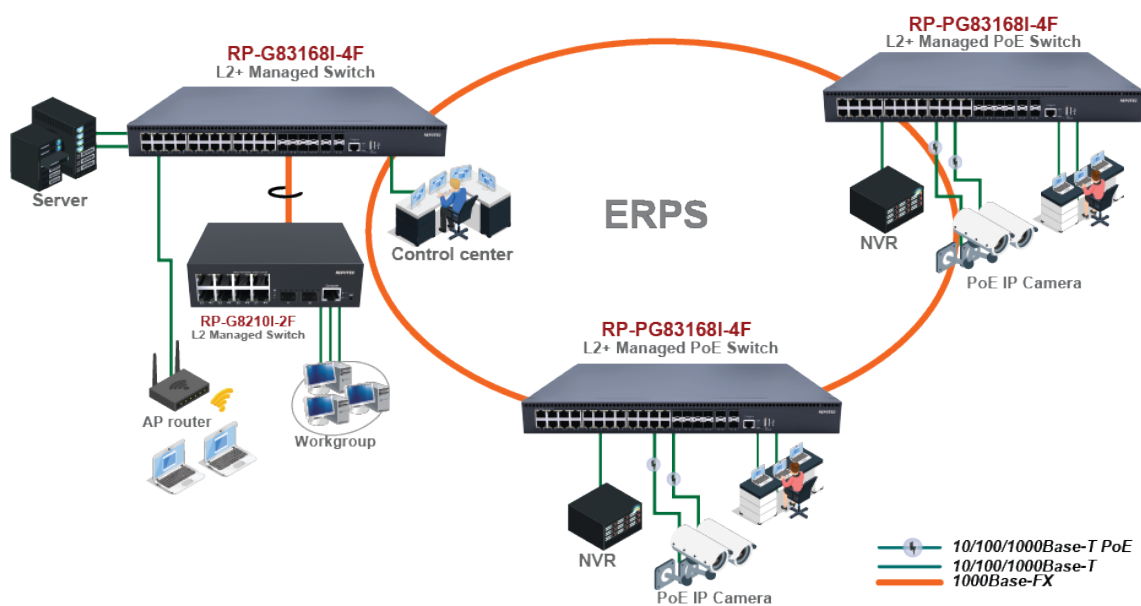
Ordering information

RP-PG83168I-4F   16-P Gigabit + 8-TP/SFP(1G) combo + 4-SFP (1G/2.5G) slot L2+ Managed PoE Switch (400W)