RP-PG83240I-4F-S

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

The RP-PG83240I-4F-S is a robust Layer 2 switch designed for enterprise networks, featuring 24 gigabit PoE ports and 4 1G/2.5G SFP slots to offer versatile connectivity options. With a PoE power budget of up to 250W, it provides reliable power to connected devices. Its 56Gbps switching capacity ensures efficient data transmission and high-performance networking.

This switch boasts comprehensive end-to-end Quality of Service (QoS) capabilities, enabling effective network traffic prioritization. It also features flexible management options and advanced security settings, making it an ideal choice for networks requiring high-speed, secure, and intelligent solutions at an affordable price. The powerful network security features provide effective control of data traffic, making it suitable for Internet Service Providers (ISPs) and supporting applications such as VoIP, video streaming, and multicast services.

In addition to its networking capabilities, the RP-PG83240I-4F-S offers a reliable power solution for SMBs deploying Power over Ethernet (PoE) networks. By combining performance, QoS capabilities, security features, and power efficiency, the RP-PG83240I-4F-S effectively meets the networking needs of enterprises.

Features

- Complies with IEEE802.3af and IEEE802.3at PoE standard
- Supports Layer 3 features, static and dynamic routing
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP, MSTP/Port Mirroring/DHCP/Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 4KV Power surge protection
- Support 4KV Ethernet ports surge protection
- Support fan speed control

Specifications

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
Switching capacity	• 68Gbps
Packet forwarding rate	• 101Mpps
MAC address table	• 16K
VLAN	• 4K
Buffer	• 12M bit
Forwarding delay	• <5us
Jumbo Frame	• Support 10Kbytes
MDX/MIDX	• Support
Watchdog	• Support
Layer 2 function	
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, Port traffic statistics, port isolation
	• Support network storm suppression based on port bandwidth percentage
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
VLAN	• Support access, trunk and hybrid mode
VLAN Classification	• Mac Based VLAN
	• IP Based VLAN

	• Protocol Based VLAN
GVRP	• Normal mode • Fixed mode • Forbidden mode
QinQ	• Port-based QinQ • VLAN-based QinQ • Flow-based QinQ
LLDP	• LLDP (Link Layer Discovery Protocol)
Port mirroring	• Many to one Port Mirroring
IEEE802.1w RSTP	• STP • RSTP • MSTP
G.8032 ERPS protocol	• Support G.8032 ERPS protocol，single ring, sub Ring and major ring • Recovery time ≤20ms
Loop detect	• Loop detect based on ports • Loop detect based on ports and VLAN
Multicast functions	
IGMP snooping	• IGMP snooping
Security functions	
ACL	• IP Standard ACL • MAC extend ACL • IP extend ACL • IPv6 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
802.1x	• Port access control • Mac-address access control • RADIUS server
Port-security	• Port-security
IP source guard	• IP Port/MAC binding
ARP-check	• Support ARP-check and ARP packet filtering for illegal users
Access control	• Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance functions	
User Management	• Support password protection • Support user authorization management
SNMP	• Supporting SNMP V1/V2C/V3 version
Web Management	• Web Management • Support HTTP V1.1 • Support HTTPS
CLI management	• Console/Telnet command line management

RMON	• Support RMON(Remote Monitoring) alarm
Firmware upgrade	• Firmware upgrade
Fault Detection	• Ping/Traceroute • Support optical transceiver DDM function
Cable detection	• Support copper port cable detection
PoE management	• Support 802.3af/802.3at • Support PD watchdog • Support PoE priority management • Support Max PoE power configuration for each port • Support alarm waterline configuration • Support reserved power configuration
NTP	• Network Time Protocol
Syslog/Debug	• Syslog/Debug • Syslog send to three servers
Configuration import/export	• Support FTP/TFTP remote import/export
Dual partition management	• Support dual partition switching
Application Protocol Functions	
DHCP Snooping	• DHCP snooping trust port • Support remote-id/circuit-id configuration • DHCP option-82
DHCP client	• Support DHCP client
Telnet server	• Support telnet server
Telnet client	• Support telnet client
SSH server	• Support SSH server
TACACS	• Support TACACS(the terminal access controller accesses the control system)
sflow	• Support network traffic analysis
TFTP	• Support TFTP Client
Layer 3 functions	
ARP	• ARP table aging
DHCP server	• Support DHCP server
IPv4 / IPv6	• static routing
Mechanical structure	
LED Indicators	• PWR (Power indicator) • 1-24(Working status indicator) Green/Red/Yellow Green indicator on: ports link up Red indicator on: PoE working Yellow indicator on: ports link up and PoE working • 25-28 (Fiber ports indicators) Green
Power supply	• VAC input • Rated voltage range: 100-240V

	• Frequency: 50/60Hz
power consumption	• Full loading ≤24W • PoE power budget≤ 250W
Over-current protection	• Support
Installation method	• Desktop Installation/Rack mountable
Dimension(W*D*H)mm	• 440*180*45mm
Environment	• Operating temperature: 0°C -50°C • Storage temperature: -10°C - +70°C • Working humidity：10%-90%RH • Storage humidity：5%-95%RH
Power surge protection	• 4KV, IEC 61000-4-5　Level X (8/20us)
Ethernet ports surge protection	• 4KV, IEC 61000-4-5　Level 4 (10/700us)
Certification	• CE/FCC

Application
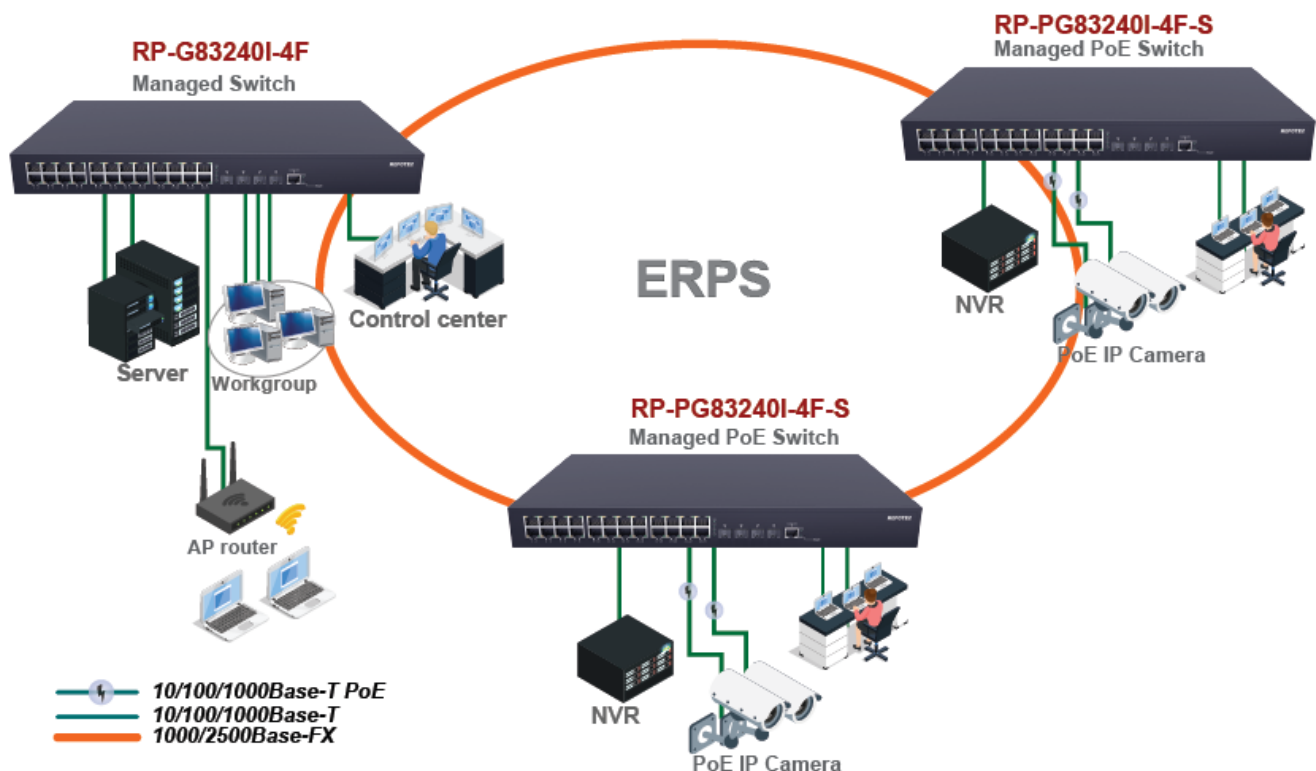
Ordering information

RP-PG83240I-4F-S　　24-P Gigabit + 4-SFP(1G/2.5G) slot L2+ Managed PoE Switch (250W)