

## RP-PG3226I | RP-PG3226IF

### **20-P Gigabit + 4-TP/SFP(100/1G) combo + 2-SFP(100/1G) slot L2+ Managed PoE+ Switch**



The RP-PG3226I, the next generation L2+ managed switch, provides a reliable infrastructure for your business network. This switch delivers more intelligent features you need to improve the availability of your critical business applications, protects your sensitive information, and optimize your network bandwidth to deliver information and applications more effectively. With PoE (Power over Ethernet) function built in, it provides the ideal combination of affordability and capabilities for entry level networking of small business or enterprise which demands IP Phone, IP Camera or Wireless applications, thus helps you create a more efficient, better-connected workforce.

## Features

- L2+ features provide better manageability, security, QoS, and performance
- Dual speed SFPs for FE or GbE fiber uplink
- 802.3az Energy Efficient Ethernet standard
- IPv6 and s-Flow supports
- Easy-Port-Configuration for ease of setup in the IP Phone, IP Camera or Wireless environment
- Supports 802.3at high power PoE plus standard

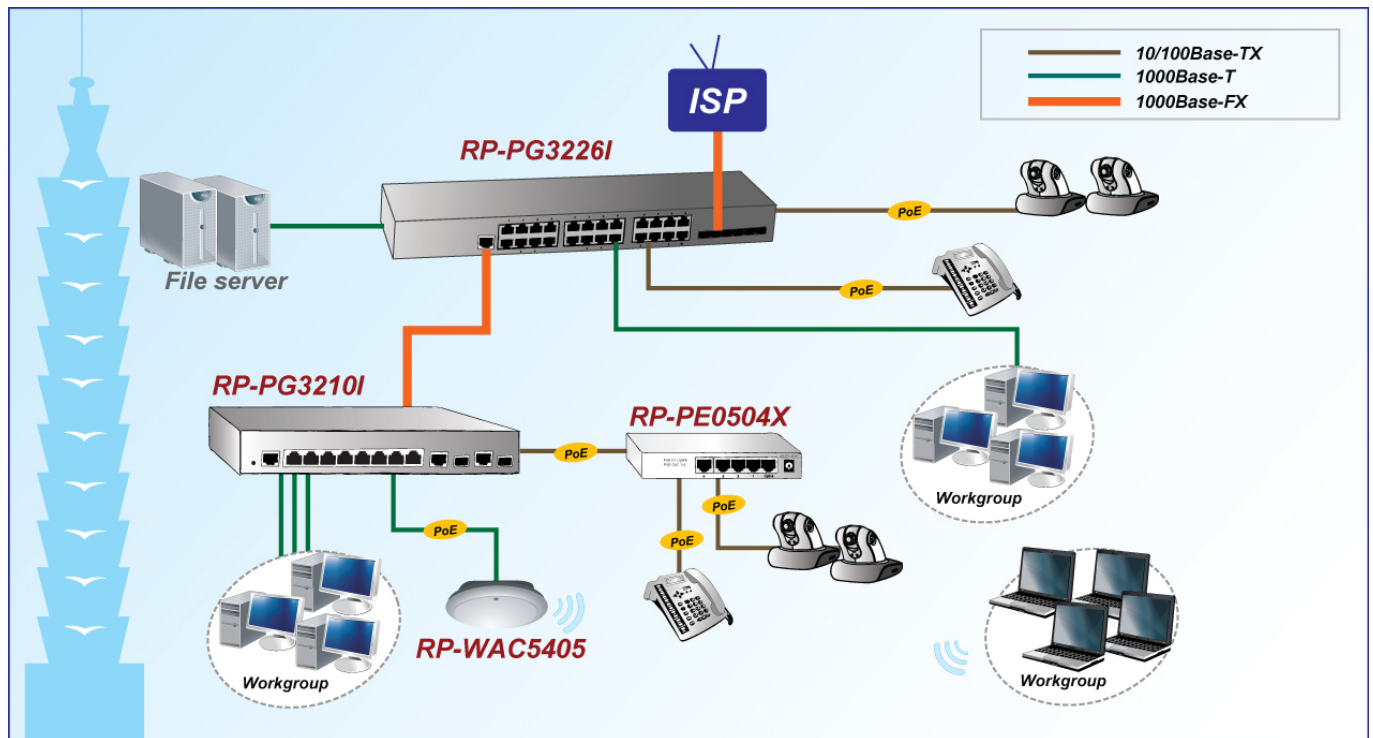
## Specifications

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| <b>Standards</b>                              | <ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T Ethernet (twisted-pair copper)</li> <li>• IEEE 802.3u 100Base-TX Ethernet (twisted-pair copper)</li> <li>• IEEE 802.3ab 1000Base-T Ethernet (twisted-pair copper)</li> <li>• IEEE 802.3z 1000Base-SX/LX Ethernet</li> <li>• IEEE 802.3at PoE</li> <li>• IEEE802.3az Energy Efficient Ethernet</li> </ul> |
| <b>Interface</b>                              | <ul style="list-style-type: none"> <li>• Port 1 to 24: RJ-45 10/100/1000 Mbps or 802.3af/at PoE</li> <li>• Port 21 to 24: UTP/ SFP(100/1G) Combo Dual Media Auto Detection</li> <li>• Port 25 to 26: SFP (100/1G)</li> <li>• Console Port: RJ-45 console port</li> </ul>  |
| <b>Switching capacity and forwarding rate</b> | <ul style="list-style-type: none"> <li>• 38.69 mpps (Capacity in Millions of Packets per Second) (64-byte packets)</li> <li>• 52 Gbps (Switching Capacity in Gigabits per Second)</li> </ul>  |
| <b>Jumbo frames</b>                           | <ul style="list-style-type: none"> <li>• Frame sizes up to 9KB supported on Gigabit interfaces</li> </ul>   |
| <b>MAC Table</b>                              | <ul style="list-style-type: none"> <li>• Up to 8K MAC addresses</li> </ul>  |
| <b>Layer 2 Switching</b>                      |   |
| <b>Spanning Tree Protocol (STP)</b>           | <ul style="list-style-type: none"> <li>• Standard Spanning Tree 802.1d</li> <li>• Rapid Spanning Tree (RSTP) 802.1w</li> <li>• Multiple Spanning Tree (MSTP) 802.1s</li> </ul>  |
| <b>Trunking</b>                               | <ul style="list-style-type: none"> <li>• Link Aggregation Control Protocol (LACP) IEEE 802.3ad</li> <li>• Up to 18 groups</li> <li>• Up to 8 ports per group</li> </ul>   |
| <b>VLAN</b>                                   | <ul style="list-style-type: none"> <li>• Support for up to 4K VLANs simultaneously (out of 4096 VLAN IDs)</li> <li>• Port-based VLAN</li> <li>• 802.1Q tag-based VLAN</li> <li>• MAC-based VLAN</li> <li>• Management VLAN</li> <li>• Private VLAN Edge (PVE)</li> </ul>  |
| <b>Voice VLAN</b>                             | <ul style="list-style-type: none"> <li>• Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS</li> </ul>   |
| <b>Generic VLAN Registration (GVRP)</b>       | <ul style="list-style-type: none"> <li>• Protocols for automatically propagating and configuring VLANs in a bridged domain</li> </ul>   |
| <b>DHCP Relay (Layer 2)</b>                   | <ul style="list-style-type: none"> <li>• Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82</li> </ul>   |
| <b>IGMP v1/v2/v3 snooping</b>                 | <ul style="list-style-type: none"> <li>• IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 256 multicast groups (source-specific multicasting is also supported)</li> </ul>  |
| <b>IGMP Querier</b>                           | <ul style="list-style-type: none"> <li>• IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router</li> </ul>  |
| <b>IGMP Proxy</b>                             | <ul style="list-style-type: none"> <li>• Support IGMP Proxy</li> </ul>  |
| <b>MLD v1/v2 snooping</b>                     | <ul style="list-style-type: none"> <li>• Deliver IPv6 multicast packets only to the required receivers</li> </ul>   |
| <b>Security</b>                               |   |
| <b>Secure Shell (SSH) Protocol</b>            | <ul style="list-style-type: none"> <li>• SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported</li> </ul>  |

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| <b>Secure Sockets Layer (SSL)</b>         | <ul style="list-style-type: none"> <li>● SSL Support: Encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch</li> </ul>  |
| <b>IEEE 802.1X</b>                        | <ul style="list-style-type: none"> <li>● IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN , single/multiple host mode and single/multiple sessions</li> <li>● Supports IGMP-RADIUS based 802.1X</li> <li>● Dynamic VLAN assignment</li> </ul>  |
| <b>Port Security</b>                      | <ul style="list-style-type: none"> <li>● Locks MAC Addresses to ports, and limits the number of learned MAC addresses</li> </ul>  |
| <b>IP Source Guard</b>                    | <ul style="list-style-type: none"> <li>● Supports illegal IP address to access to specific port in the switch</li> </ul>  |
| <b>RADIUS/ TACACS+</b>                    | <ul style="list-style-type: none"> <li>● Supports RADIUS and TACACS+ authentication. Switch as a client</li> </ul>  |
| <b>Storm control</b>                      | <ul style="list-style-type: none"> <li>● Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port</li> </ul>  |
| <b>ACLs</b>                               | <ul style="list-style-type: none"> <li>● Support for up to 256 entries</li> <li>● Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag</li> </ul> |
| <b>Quality of Service</b>                 |   |
| <b>Hardware Priority Queue Scheduling</b> | <ul style="list-style-type: none"> <li>● Support 8 hardware queues</li> <li>● Strict priority and weighted round-robin (WRR)</li> <li>● Queue assignment based on DSCP and class of service (802.1p/ CoS)</li> </ul>  |
| <b>Classification</b>                     | <ul style="list-style-type: none"> <li>● Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS</li> </ul>   |
| <b>Rate Limiting</b>                      | <ul style="list-style-type: none"> <li>● Ingress policer; egress shaping and rate control; per VLAN, per port and flow based</li> </ul>   |
| <b>IPv6 applications</b>                  | <ul style="list-style-type: none"> <li>● Web/ SSL, Telnet/ SSH, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, Syslog</li> </ul>   |
| <b>Management</b>                         |   |
| <b>Web GUI interface</b>                  | <ul style="list-style-type: none"> <li>● Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring</li> </ul>   |
| <b>Dual Image</b>                         | <ul style="list-style-type: none"> <li>● Dual image provides independent primary and secondary OS files for backup while upgrading</li> </ul>   |
| <b>SNMP</b>                               | <ul style="list-style-type: none"> <li>● SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)</li> </ul>  |
| <b>Remote Monitoring (RMON)</b>           | <ul style="list-style-type: none"> <li>● Embedded RMON software agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis</li> </ul>  |
| <b>IPv4 and IPv6 dual stack</b>           | <ul style="list-style-type: none"> <li>● Coexistence of both protocol stacks to migration</li> </ul>  |
| <b>Firmware upgrade</b>                   | <ul style="list-style-type: none"> <li>● Web browser upgrade (HTTP/ HTTPs) and TFTP</li> <li>● Upgrade through console port as well</li> </ul>  |
| <b>Port mirroring</b>                     | <ul style="list-style-type: none"> <li>● Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to 8 source ports can be mirrored</li> </ul>  |

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|  | to single destination port. A single session is supported   |
| <b>Easy-Configuration-Ports</b>  | <ul style="list-style-type: none"> <li>• Easily to configure of clients' QoS and Security capabilities</li> </ul>   |
| <b>Other management</b>  | <ul style="list-style-type: none"> <li>• Single IP management</li> <li>• HTTP/HTTPS; SSH; RADIUS; DHCP Client/ DHCPv6 Client</li> <li>• SNMP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)</li> </ul>  |
| <b>s-Flow</b>  | <ul style="list-style-type: none"> <li>• The industry standard technology for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats</li> </ul>                                   |
| <b>UPnP</b>  | <ul style="list-style-type: none"> <li>• The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play</li> </ul>  |
| <b>Green Ethernet</b>  |   |
| <b>Link detection</b>  | <ul style="list-style-type: none"> <li>• Compliant with IEEE802.3az Energy Efficient Ethernet Task Force.</li> <li>• Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or idle of client. Active mode is resumed without loss of any packets when the switch detects the link up</li> </ul> |
| <b>Cable length detection</b>  | <ul style="list-style-type: none"> <li>• Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter</li> </ul>   |
| <b>Discovery</b>   |   |
| <b>Link Layer Discovery Protocol (LLDP) (IEEE802.1AB) with LLDP-MED extensions</b> | <ul style="list-style-type: none"> <li>• Used by network devices for advertising their identity, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.</li> </ul>   |
| <b>Environmental</b>   |   |
| <b>PoE Power Budget</b>  | <ul style="list-style-type: none"> <li>• Max. 185W (with PD device connected)-RP-PG3226I</li> <li>• Max. 370W (with PD device connected)-RP-PG3226IF</li> </ul>   |
| <b>Power Supply</b>  | <ul style="list-style-type: none"> <li>• Internal Power supply 100~240VAC, 50/60 Hz</li> </ul>  |
| <b>Environment</b>   | <ul style="list-style-type: none"> <li>• Operating temperature : 0°C to 40°C</li> <li>• Operating Humidity: 10% to 90% (Non-Condensing)</li> </ul>  |
| <b>Dimension</b>   | <ul style="list-style-type: none"> <li>• RP-PG3226I: 442(W)x 44(H ) x 300(D ) mm</li> <li>• RP-PG3226IF : 442(W)x 44(H ) x 385(D ) mm</li> </ul>  |
| <b>Certification</b>   | <ul style="list-style-type: none"> <li>• FCC, CE</li> </ul>   |

## Application



## Ordering information

- RP-PG3226I** 20-P Gigabit + 4-TP/SFP(100/1G) combo + 2-SFP(100/1G) slot  
L2+ Managed PoE+ Switch(185W)
- RP-PG3226IF** 20-P Gigabit + 4-TP/SFP(100/1G) combo + 2-SFP(100/1G) slot  
L2+ Managed PoE+ Switch(370W)