

## RP-PG1518W

### **16-P Gigabit + 2-SFP(100/1G) slot Web-Smart+ 802.3at PoE Switch**



RP-PG1518W is a 16-Port (10M/100M/1G) PoE+ and 2 GbE SFP port web smart PoE switch, which offers powerful L2 features with better functionality and usability. It delivers the cost-effectively business and transports Ethernet services via fiber or copper connections.

With PoE function, RP-PG1518W offers power output up to 30W per port and 250W power budget via Cat.5/5e/6 Ethernet cables. In addition, over current protection and circuit shorting protection are also supported to ensure the power supply safety. The rich diagnostic LEDs on the front-panel provide the clear operating status of individual port and the whole system.

RP-PG1518W provides high performance and environment flexibility for SMBs and Enterprises. The embedded Device Managed System feature provides users with the benefits of easy-to-use/configure/install/troubleshoot in the video surveillance, wireless access, and other SMBs and Enterprises applications. RP-PG1518W is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership.

## Feature

- IEEE 802.3af/at Power over Ethernet
- Web Smart+ features provide easier manageability, basic security and QoS
- Support 802.1d(STP), 802.1w(RSTP) and 802.1s(MSTP)
- Support SNMP v1/v2c/v3
- Support IGMP Snooping
- Support IP Source Guard
- DHCP Server
- PoE Port configuration and scheduling
- Support over current protection and circuit shorting protection
- Wire-speed packet filtering and forwarding rate
- 9216Bytes Jumbo frames
- 8K Mac address
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet

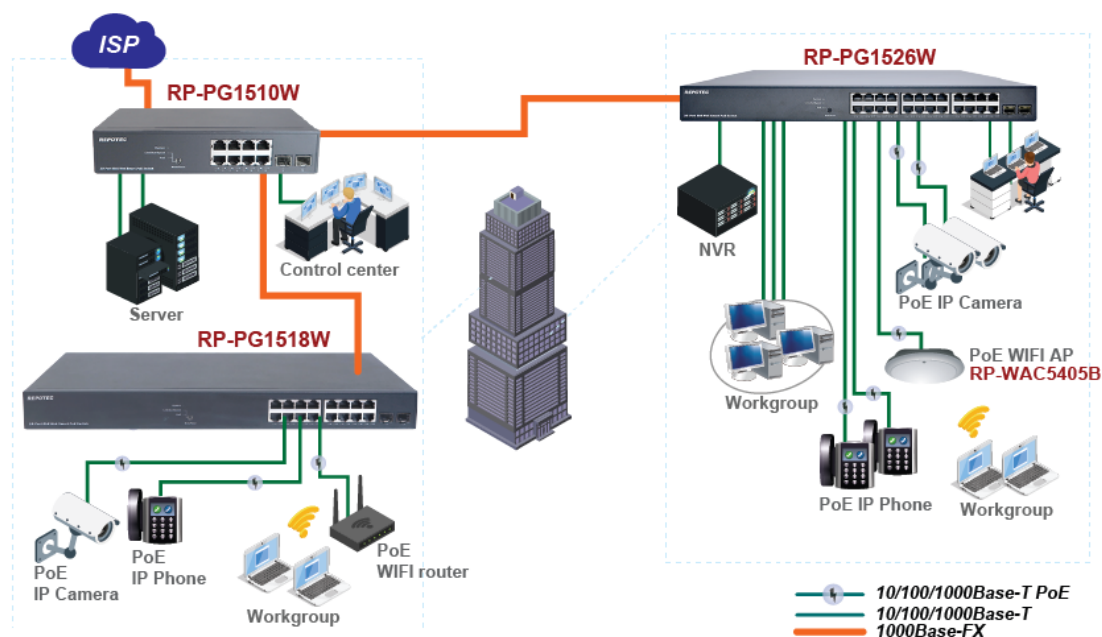
## Specification

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| <b>Standards</b>                         | <ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T Ethernet</li> <li>• IEEE 802.3u 100Base-TX Ethernet</li> <li>• IEEE 802.3ab 1000Base-T Ethernet</li> <li>• IEEE 802.3z 1000Base-X Ethernet</li> <li>• IEEE 802.3x Flow Control capability</li> <li>• IEEE802.3az Energy Efficient Ethernet</li> </ul>  |
| <b>Interface</b>                         | <ul style="list-style-type: none"> <li>• Port 1 to 16: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto MDI/X</li> <li>• Port 17 to 18: SFP(100/1000Mbps) slot, uplink</li> <li>• Reset Button</li> </ul>  |
| <b>Forwarding Capacity</b>               | <ul style="list-style-type: none"> <li>• 26.784 Mpps</li> </ul>   |
| <b>Switching Capacity</b>                | <ul style="list-style-type: none"> <li>• 36 Gbps</li> </ul>   |
| <b>Jumbo frames</b>                      | <ul style="list-style-type: none"> <li>• 9216 Bytes</li> </ul>  |
| <b>MAC Table</b>                         | <ul style="list-style-type: none"> <li>• 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>• Static aggregation</li> </ul>   |
| <b>VLAN</b>                              | <ul style="list-style-type: none"> <li>• Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs)</li> <li>• Port-based VLAN</li> <li>• 802.1Q tag-based VLAN</li> <li>• Protocol based VLAN</li> <li>• IP subnet-based VLAN</li> <li>• Private VLAN Edge (PVE)</li> <li>• MAC-based VLAN</li> <li>• Q-in-Q (double tag) VLAN</li> <li>• Voice VLAN</li> <li>• GARP VLAN Registration Protocol (GVRP) (option)</li> </ul> |
| <b>DHCP Relay</b>                        | <ul style="list-style-type: none"> <li>• Relay of DHCP traffic to DHCP server in different VLAN.</li> <li>• Works with DHCP Option 82</li> </ul>  |
| <b>IGMP snooping</b>                     | <ul style="list-style-type: none"> <li>• IGMP limits bandwidth-intensive multicast traffic to only the requesters</li> <li>• Supports 512 multicast groups</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>• IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router</li> </ul>  |
| <b>MLD v1/v2 Snooping</b>                | <ul style="list-style-type: none"> <li>• Delivers IPv6 multicast packets only to the required receivers</li> </ul>  |
| <b>Multicast VLAN Registration (MVR)</b> | <ul style="list-style-type: none"> <li>• It uses a dedicated manually configured VLAN, called the multicast VLAN, to forward multicast traffic over Layer 2 network in conjunction with IGMP snooping.</li> </ul>   |
| <b>Security</b>                          |   |
| <b>Secure Shell (SSH)</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>  |
| <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>  |

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| <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>Layer 2 Isolation Private VLAN Edge (PVE)</b> | <ul style="list-style-type: none"> <li>• PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks</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>• Prevents illegal IP address from accessing 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>DHCP Snooping</b>                             | <ul style="list-style-type: none"> <li>• A feature acts as a firewall between untrusted hosts and trusted DHCP servers</li> </ul>   |
| <b>Loop Protection</b>                           | <ul style="list-style-type: none"> <li>• To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.</li> </ul>  |
| <b>ACLs</b>                                      | <ul style="list-style-type: none"> <li>• Supports up to 384 entries. Drop or rate limitation based on: <ul style="list-style-type: none"> <li>■ Source and destination MAC, VLAN ID or IP address, protocol, port,</li> <li>■ Differentiated services code point (DSCP) / IP precedence</li> <li>■ TCP/ UDP source and destination ports</li> <li>■ 802.1p priority</li> <li>■ Ethernet type</li> <li>■ Internet Control Message Protocol (ICMP) packets</li> <li>■ TCP flag</li> </ul> </li> </ul> |
| <b>Quality of Service</b>                        |   |
| <b>Hardware Queue</b>                            | <ul style="list-style-type: none"> <li>• Support 8 hardware queues</li> </ul>   |
| <b>Scheduling</b>                                | <ul style="list-style-type: none"> <li>• Strict priority and weighted round-robin (WRR)</li> <li>• Queue assignment based on DSCP and class of service</li> </ul>   |
| <b>Classification</b>                            | <ul style="list-style-type: none"> <li>• Port based</li> <li>• 802.1p VLAN priority based</li> </ul>  |
| <b>Rate Limiting</b>                             | <ul style="list-style-type: none"> <li>• Ingress policer</li> <li>• Egress shaping and rate control</li> <li>• Per port</li> </ul>  |
| <b>Management</b>                                |   |
| <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 N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported</li> </ul>   |
| <b>IEEE 802.1ab (LLDP)</b>                       | <ul style="list-style-type: none"> <li>• Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802.1ab local area network</li> <li>• Support LLDP-MED extensions</li> </ul>  |
| <b>Web GUI Interface</b>                         | <ul style="list-style-type: none"> <li>• Built-in switch configuration utility for browser-based device configuration</li> </ul>  |
| <b>Dual Image</b>                                | <ul style="list-style-type: none"> <li>• Independent primary and secondary images for backup while upgrading</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>DHCP Server</b>                               | <ul style="list-style-type: none"> <li>• Support DHCP server to assign IP to DHCP clients</li> </ul>  |
| <b>Remote Monitoring</b>                         | <ul style="list-style-type: none"> <li>• Embedded RMON agent supports RMON groups 1,2,3,9 (history,</li> </ul>  |

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| <b>(RMON)</b>              | statistics, alarms, and events) for enhanced traffic management, monitoring and analysis  |
| <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>Firmware Upgrade</b>    | <ul style="list-style-type: none"> <li>• Web browser upgrade (HTTP/ HTTPS) and TFTP</li> </ul>  |
| <b>NTP</b>                 | <ul style="list-style-type: none"> <li>• Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched</li> </ul>              |
| <b>Other Management</b>    | <ul style="list-style-type: none"> <li>• HTTP/HTTPS</li> <li>• DHCP Client</li> <li>• Cable Diagnostics</li> <li>• Syslog</li> <li>• Telnet Client; SSH</li> <li>• IPv6 Management</li> </ul> |
| <b>Power over Ethernet</b> |   |
| <b>Port Configuration</b>  | <ul style="list-style-type: none"> <li>• Supports per port PoE configuration function</li> </ul>  |
| <b>PoE Scheduling</b>      | <ul style="list-style-type: none"> <li>• Supports per port PoE scheduling to turn on/off the PoE devices (PDs).</li> </ul>  |
| <b>Auto-checking</b>       | <ul style="list-style-type: none"> <li>• Check the link status of PDs. Reboot PDs if there is no responses.</li> </ul>  |
| <b>Power Delay</b>         | <ul style="list-style-type: none"> <li>• The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs</li> </ul>      |
| <b>PoE Power Budget</b>    | <ul style="list-style-type: none"> <li>• 250W</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 50°C</li> <li>• Storage Temperature: -20 to 70°C</li> <li>• Operating Humidity: 10% to 90% (Non-Condensing)</li> </ul> |
| <b>Dimension</b>           | <ul style="list-style-type: none"> <li>• W442 x D211 x H44mm</li> </ul>   |
| <b>Certification</b>       | <ul style="list-style-type: none"> <li>• FCC, CE</li> </ul>   |

## Application



## Ordering information

**RP-PG1518W** 16-P Gigabit + 2-SFP(100/1G) slot Web-Smart+ 802.3at PoE Switch (250W)