

## RP-G1510W

### **8-P Gigabit + 2-SFP (100/1G) slot Web smart Switch**

RP-G1510W web smart+ managed GbE switch is the next-generation Ethernet switch offering powerful L2 features with better functionality and usability. That delivers the cost-effectively business and transports Ethernet services via fiber or copper connections.

RP-G1510W delivers 8 (10M/100M/1G) RJ45 ports and 2 GbE SFP ports. RP-G1510W provides high HW performance and environment flexibility for SMBs and Enterprises.

The embedded Device Managed System (DMS) features provide users with the benefits of easy-to-use/configure/install/troubleshoot in the video surveillance, wireless access, and other SMBs and Enterprises applications. RP-G1510W is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership.



## Feature

- L2+ features provide better manageability, security, QoS, and performance.
- Support IPv4/IPv6 dual stack management
- Support SSH/SSL secured management
- Support SNMP v1/v2c
- Support RMON groups 1,2,3,9
- Support sFlow
- Support IGMP v1/v2 Snooping
- Support MLD v1/v2 Snooping
- Support RADIUS and TACACS+ authentication
- Support IP Source Guard
- Support DHCP Relay (Option 82)
- Support DHCP Snooping
- Support 802.1d(STP), 802.1w(RSTP) and 802.1s(MSTP)
- Support LACP and static link aggregation
- Support Q-in-Q double tag VLAN
- Support GVRP dynamic VLAN
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet
- Fanless design
- Optional 19" Rack-mounted bracket

## Specification

<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 8: RJ-45 10/100/1000Mbps, auto MDI/X</li> <li>● Port 9 to 10: SFP(100/1000Mbps) slot</li> <li>● Reset Button</li> </ul>
<b>Forwarding Capacity</b>	<ul style="list-style-type: none"> <li>● 14.88 Mpps</li> </ul>
<b>Switching Capacity</b>	<ul style="list-style-type: none"> <li>● 20 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) <ul style="list-style-type: none"> <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> </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</b>	<ul style="list-style-type: none"> <li>● It uses a dedicated manually configured VLAN, called the multicast</li> </ul>

<b>Registration (MVR)</b>	VLAN, to forward multicast traffic over Layer 2 network in conjunction with IGMP snooping
<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 encrypts the http traffic, allowing advanced 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>Layer 2 Isolation Private VLAN Edge</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 address</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 802ab 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 (RMON)</b>	<ul style="list-style-type: none"> <li>● Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis</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>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/ DHCPv6 Client</li> <li>● Cable Diagnostics</li> <li>● Syslog</li> <li>● Telnet Client; SSH</li> <li>● IPv6 Management</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>● 220 x 44 x 134mm (WxHxD)</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>● FCC, CE</li> </ul>

## Ordering information

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