

#### **RP-PG1510W**

### 8-P Gigabit + 2-SFP(100/1G) Web-Smart+ 802.3at PoE Switch (130W)



RP-PG1510W web smart+ managed GbE PoE+ 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-PG1510W delivers 8 (10M/100M/1G) RJ45 with 8 PoE+ (Support 802.3 at/af, and total up to 130W) ports and 2 GbE SFP ports. RP-PG1510W provides high HW performance and environment flexibility for SMBs and Enterprises.

The embedded Device Managed System (DMS) 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-PG1510W is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership.

#### **Features**

- 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

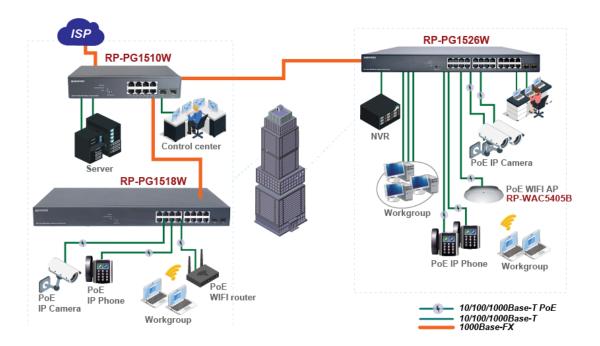
# **Specifications**

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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
	IEEE 802.3x Flow Control capability
	IEEE802.3az Energy Efficient Ethernet
Interface	<ul> <li>Port 1 to 8: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto</li> </ul>
	MDI/X
	<ul> <li>Port 9 to 10: SFP(100/1000Mbps) slot, uplink</li> </ul>
	Reset Button
Forwarding Capacity	• 14.88 Mpps
Switching Capacity	20 Gbps
Jumbo frames	9216 Bytes
MAC Table	8K MAC addresses
Layer 2 Switching	
Spanning Tree Protocol	Standard Spanning Tree 802.1d
(STP)	Rapid Spanning Tree (RSTP) 802.1w
	Multiple Spanning Tree (MSTP) 802.1s
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad
	Static aggregation
VLAN	<ul> <li>Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs)</li> </ul>
	Port-based VLAN
	<ul> <li>802.1Q tag-based VLAN</li> </ul>
	Protocol based VLAN
	IP subnet-based VLAN
	Private VLAN Edge (PVE)
	MAC-based VLAN
	Q-in-Q (double tag) VLAN
	Voice VLAN
	GARP VLAN Registration Protocol (GVRP) (option)
DHCP Relay	Relay of DHCP traffic to DHCP server in different VLAN.
	Works with DHCP Option 82
IGMP snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters
	Supports 512 multicast groups
IGMP Querier	IGMP querier is used to support a Layer 2 multicast domain of snooping
	switches in the absence of a multicast router
IGMP Proxy	IGMP snooping with proxy reporting or report suppression actively
	filters IGMP packets in order to reduce load on the multicast router
MLD v1/v2 Snooping	Delivers IPv6 multicast packets only to the required receivers
Multicast VLAN	It uses a dedicated manually configured VLAN, called the multicast
Registration (MVR)	VLAN, to forward multicast traffic over Layer 2 network in conjunction
	with IGMP snooping.
Security	
Secure Shell (SSH)	<ul> <li>SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are</li> </ul>
	supported
Secure Sockets Layer	<ul> <li>SSL Support: Encrypts the http traffic, allowing advance secure access</li> </ul>
(SSL)	to the browser-based management GUI in the switch

IEEE 802.1X	IEEE802.1X: RADIUS authentication, authorization and accounting,
	MD5 hash, guest VLAN , single/multiple host mode and single/multiple
	sessions
	<ul> <li>Supports IGMP-RADIUS based 802.1X</li> </ul>
	Dynamic VLAN assignment
Layer 2 Isolation Private	• PVE (also knows as protected ports) provides L2 isolation between
VLAN Edge (PVE)	clients in the same VLAN. Supports multiple uplinks
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC
-	address
IP Source Guard	Prevents illegal IP address from accessing to specific port in the switch
RADIUS/ TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client
Storm control	<ul> <li>Prevents traffic on a LAN from being disrupted by a broadcast,</li> </ul>
	multicast, or unicast storm on a port
DHCP Snooping	<ul> <li>A feature acts as a firewall between untrusted hosts and trusted DHCP</li> </ul>
	servers
Loop Protection	<ul> <li>To prevent unknown unicast, broadcast and multicast loops in Layer 2</li> </ul>
	switching configurations.
ACLs	<ul> <li>Supports up to 384 entries. Drop or rate limitation based on:</li> </ul>
AGE3	<ul> <li>Source and destination MAC, VLAN ID or IP address, protocol, port,</li> </ul>
	<ul> <li>Differentiated services code point (DSCP) / IP precedence</li> </ul>
	<ul> <li>TCP/ UDP source and destination ports</li> </ul>
	<ul> <li>802.1p priority</li> <li>Ethernet type</li> </ul>
	Ethernet type     Jeternet Control Massage Restagel (ICMR) packate
	<ul> <li>Internet Control Message Protocol (ICMP) packets</li> <li>TCD flag</li> </ul>
	TCP flag
Quality of Service	
Hardware Queue	Support 8 hardware queues
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(RMON)	statistics, alarms, and events) for enhanced traffic management,
	monitoring and analysis
SNMP	• SNMP version1, 2c and 3 with support for traps, and SNMP version 3
	user-based security model (USM)
Firmware Upgrade	<ul> <li>Web browser upgrade (HTTP/ HTTPs) and TFTP</li> </ul>
NTP	Network Time Protocol (NTP) is a networking protocol for clock
	synchronization between computer systems over packet-switched
Other Management	HTTP/HTTPs
	DHCP Client
	Cable Diagnostics
	Syslog
	Telnet Client; SSH
	IPv6 Management
Power over Ethernet	
Port Configuration	<ul> <li>Supports per port PoE configuration function</li> </ul>
PoE Scheduling	• Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses.
Power Delay	• 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
PoE Power Budget	• 130W
Power Supply	<ul> <li>Internal Power supply 100~240VAC, 50/60 Hz</li> </ul>
Environment	<ul> <li>Operating temperature: 0°C to 50°C</li> </ul>
	Storage Temperature: -20 to 70°C
	Operating Humidity: 10% to 90% (Non-Condensing)
Dimension	• W220 x D242 x H44mm
Certification	• FCC, CE

# **Application**



## **Ordering information**

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