RP-PG1610W

8-P Gigabit + 2-TP/SFP (100/1G) combo Web smart PoE+ Switch

RP-PG1610W is a 10-port Web Smart Gigabit PoE Switch which delivers 8 (10M/100M/1G) RJ45 ports, 2 Combo GbE RJ45/SFP ports.

RP-PG1610W offers powerful network switching engine such as Trunking, VLAN, IGMP snooping functions…etc. and supports smooth IPv6 migration for future expansions. RP-PG1610W's 10/100/1000 Mbps ports are PoE-enabled, supporting 8 ports PoE+ with a total power budget of 130W. It provides the ideal combination of affordability and capabilities for entry level networking of a small business or a branch office of an enterprise which demands IP Phone, IP Camera or Wireless applications, thus helps you to create an efficient, flexible and easier-connected workforce.

RP-PG1610W complies with 802.3az Energy Efficient Ethernet (EEE) features can reduce energy consumption of Ethernet devices through defining low-power modes and adjusting the operating timeframe to help saving the related costs effectively. RP-PG1610W comes with a fanless design in a compact desktop cabinet, also offering a 19" rack mounting brackets optional.

Features

- PoE Port configuration and scheduling
- 802.3at high power PoE plus standard
- Built in Device Management System (DMS)
- DHCP Server
- IPv4/IPv6 L3 static route
- Support SNMP v1/v2c/v3
- Support RMON groups 1,2,3,9
- Support IGMP v1/v2/v3 Snooping
- Support RADIUS authentication
- Support IP Source Guard
- Support DHCP Snooping
- Support ACL and QCL for traffic filtering
- Support 802.1d(STP), 802.1w(RSTP) and 802.1s(MSTP)
- Support LACP and static link aggregation
- Support Q-in-Q double tag VLAN
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet
- Fanless design

Specification

Standards	• IEEE 802.3/3u 10Base-T, 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE 802.3x Flow Control capability • IEEE 802.3at/af PoE Standard • IEEE802.3az Energy Efficient Ethernet
Interface	• Port 1 to 8: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto MDI/X • Port 9 to 10: RJ45/SFP(100/1000Mbps) combo • 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 (STP)	• Standard Spanning Tree 802.1d • Rapid Spanning Tree (RSTP) 802.1w • Multiple Spanning Tree (MSTP) 802.1s
Trunking	• Link Aggregation Control Protocol (LACP) IEEE 802.3ad ▪ Up to 5 groups ▪ Up to 2 ports per group
VLAN	• Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ▪ Port-based VLAN ▪ 802.1Q tag-based VLAN ▪ Management VLAN ▪ Q-in-Q (double tag) VLAN
IGMP v1/v2/v3 snooping	• IGMP limits bandwidth-intensive multicast traffic to only the requesters • Supports 1024 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
Layer 3 Switching	
IPv4 Static Routing	• IPv4 Unicast: Static routing
IPv6 Static Routing	• IPv6 Unicast: Static routing
Security	
Secure Shell (SSH)	• SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	• SSL Support: Encrypts the http traffic, allowing advance secure access 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 • Supports IGMP-RADIUS based 802.1X • Dynamic VLAN assignment
Layer 2 Isolation Private VLAN Edge (PVE)	• PVE (also knows as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
Port Security	• Locks MAC addresses to ports, and limits the number of learned MAC address
Storm control	• Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port

Quality of Service	
Hardware Queue	• Support 8 hardware queues
Scheduling	• Strict priority and weighted round-robin (WRR) • Queue assignment based on DSCP and class of service
Classification	• Port based • 802.1p VLAN priority based • IPv4/IPv6 precedence / DSCP based • Differentiated Services (DiffServ) • Classification and re-marking ACLs
Rate Limiting	• Ingress policer • Egress shaping and rate control • Per port
Management	
DHCP Server	• Support DHCP server to assign IP to DHCP clients
Port mirroring	• 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
UPnP	• The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
IEEE 802.1ab (LLDP)	• Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network • Support LLDP-MED extensions
Web GUI Interface	• Built-in switch configuration utility for browser-based device configuration
Dual Image	• Independent primary and secondary images for backup while upgrading
SNMP	• SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
Firmware Upgrade	• Web browser upgrade (HTTP/ HTTPs) and TFTP
NTP	• Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	• HTTP/HTTPs • DHCP Client/ DHCPv6 Client • Cable Diagnostics • Ping • Syslog • IPv6 Management
Power over Ethernet (PoE)	
Port Configuration	• Supports per port PoE configuration function
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	• 130 Watts
Power Supply	• Internal Power supply 100~240VAC, 50/60 Hz
Environment	• Operating temperature: 0°C to 45°C • Storage Temperature: -20 to 70°C • Operating Humidity: 10% to 90% (Non-Condensing)
Dimension	• 220 x 44 x 242mm (WxHxD)
Certification	• FCC, CE

Ordering information

RP-PG1610W	8-P Gigabit + 2-TP/SFP(10/1G) combo Web Smart PoE+ Switch (130W)

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