RP-PG1526WL | RP-PG1526W

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

RP-PG1526Wx series is a 24-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-PG1526Wx offers power output up to 30W per port and 185W/ 370W 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-PG1526Wx 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-PG1526Wx 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

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	- Port 1 to 24: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto MDI/X - Port 25 to 26: SFP(100/1000Mbps) slot, uplink - Reset Button
Forwarding Capacity	38.688 Mpps
Switching Capacity	52 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 - Static aggregation
VLAN	- Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) - Port-based VLAN 802.1Q tag-based VLAN - 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 Registration (MVR)	It uses a dedicated manually configured VLAN, called the multicast VLAN, to forward multicast traffic over Layer 2 network in conjunction with IGMP snooping.
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
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	● Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
DHCP Snooping	● A feature acts as a firewall between untrusted hosts and trusted DHCP servers
Loop Protection	● To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.
ACLs	● Supports up to 384 entries. 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 ■ TCP flag
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
Rate Limiting	● Ingress policer ● Egress shaping and rate control ● Per port
Management	
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
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
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
DHCP Server	● Support DHCP server to assign IP to DHCP clients
Remote Monitoring	● Embedded RMON agent supports RMON groups 1,2,3,9 (history,

(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	● 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 ● Cable Diagnostics ● Syslog ● Telnet Client; SSH ● IPv6 Management
Power over Ethernet	
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	● 185W for RP-PG1526WL, 370W for RP-PG1526W
Power Supply	● Internal Power supply 100~240VAC, 50/60 Hz
Environment	● Operating temperature: 0°C to 50°C ● Storage Temperature: -20 to 70°C ● Operating Humidity: 10% to 90% (Non-Condensing)
Dimension	● W442 x D211 x H44mm
Certification	● FCC, CE

Application
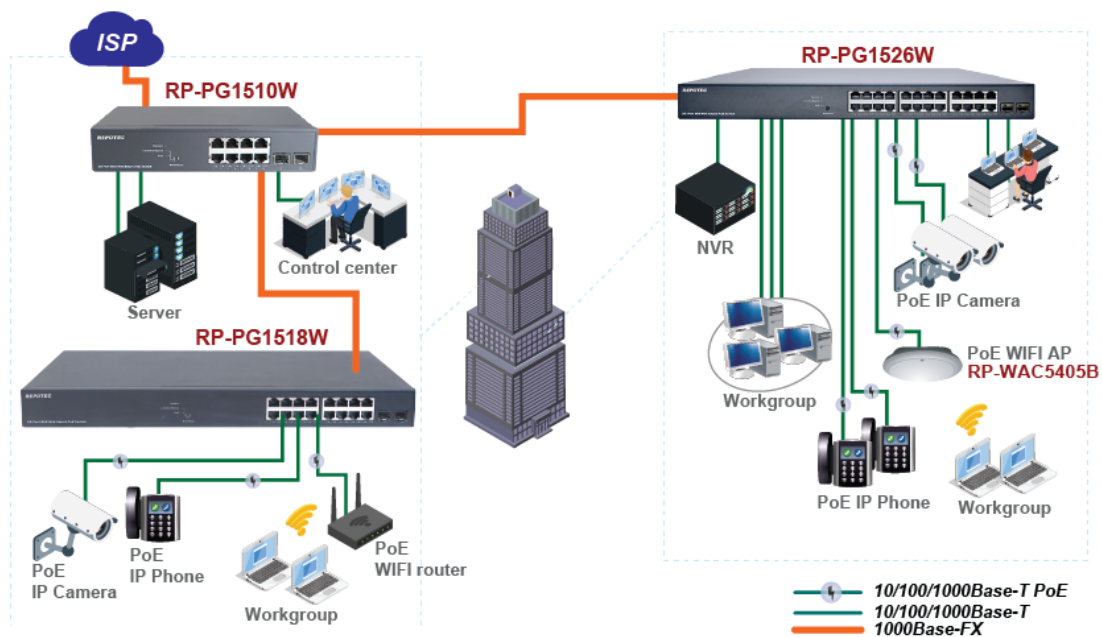
Ordering information

RP-PG1526WL 24-P Gigabit + 2-SFP(100/1G) Web-Smart+ 802.3at PoE Switch (185W)

RP-PG1526W 24-P Gigabit + 2-SFP(100/1G) Web-Smart+ 802.3at PoE Switch (370W)