

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

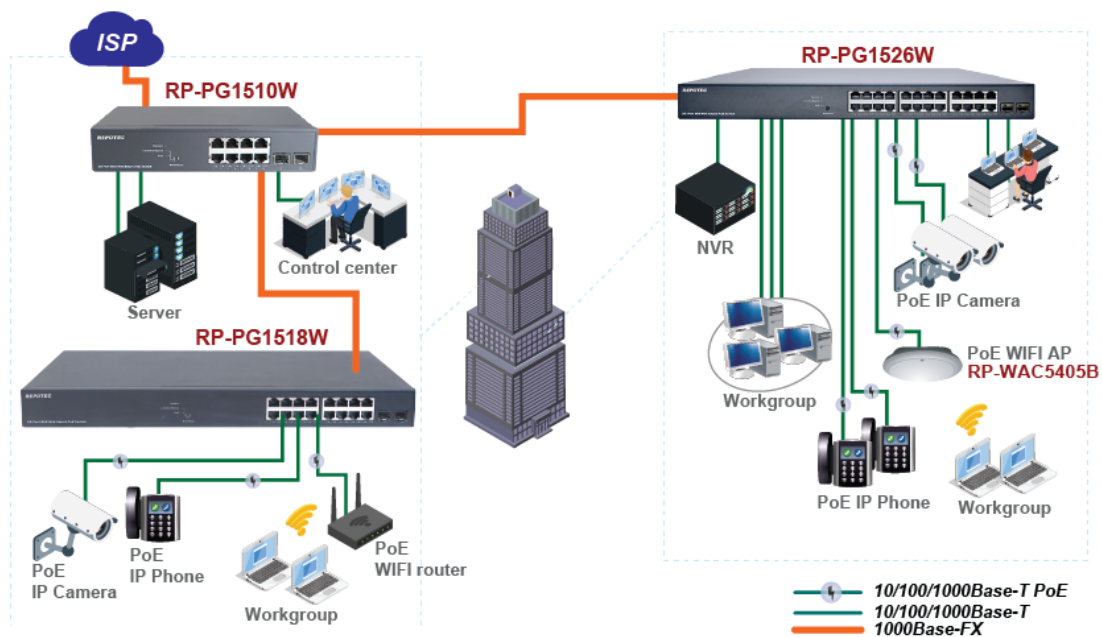
Specification

Standards	<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • Port 1 to 16: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto MDI/X • Port 17 to 18: SFP(100/1000Mbps) slot, uplink • Reset Button
Forwarding Capacity	<ul style="list-style-type: none"> • 26.784 Mpps
Switching Capacity	<ul style="list-style-type: none"> • 36 Gbps
Jumbo frames	<ul style="list-style-type: none"> • 9216 Bytes
MAC Table	<ul style="list-style-type: none"> • 8K MAC addresses
Layer 2 Switching	
Spanning Tree Protocol (STP)	<ul style="list-style-type: none"> • Standard Spanning Tree 802.1d • Rapid Spanning Tree (RSTP) 802.1w • Multiple Spanning Tree (MSTP) 802.1s
Trunking	<ul style="list-style-type: none"> • Link Aggregation Control Protocol (LACP) IEEE 802.3ad • Static aggregation
VLAN	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Relay of DHCP traffic to DHCP server in different VLAN. • Works with DHCP Option 82
IGMP snooping	<ul style="list-style-type: none"> • IGMP limits bandwidth-intensive multicast traffic to only the requesters • Supports 512 multicast groups
IGMP Querier	<ul style="list-style-type: none"> • IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
IGMP Proxy	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Delivers IPv6 multicast packets only to the required receivers
Multicast VLAN Registration (MVR)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	<ul style="list-style-type: none"> • SSL Support: Encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch

IEEE 802.1X	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
Port Security	<ul style="list-style-type: none"> • Locks MAC addresses to ports, and limits the number of learned MAC addresses
IP Source Guard	<ul style="list-style-type: none"> • Prevents illegal IP address from accessing to specific port in the switch
RADIUS/ TACACS+	<ul style="list-style-type: none"> • Supports RADIUS and TACACS+ authentication. Switch as a client
Storm control	<ul style="list-style-type: none"> • Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
DHCP Snooping	<ul style="list-style-type: none"> • A feature acts as a firewall between untrusted hosts and trusted DHCP servers
Loop Protection	<ul style="list-style-type: none"> • To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.
ACLs	<ul style="list-style-type: none"> • Supports up to 384 entries. Drop or rate limitation based on: <ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> • Support 8 hardware queues
Scheduling	<ul style="list-style-type: none"> • Strict priority and weighted round-robin (WRR) • Queue assignment based on DSCP and class of service
Classification	<ul style="list-style-type: none"> • Port based • 802.1p VLAN priority based
Rate Limiting	<ul style="list-style-type: none"> • Ingress policer • Egress shaping and rate control • Per port
Management	
Port mirroring	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Built-in switch configuration utility for browser-based device configuration
Dual Image	<ul style="list-style-type: none"> • Independent primary and secondary images for backup while upgrading
UPnP	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Support DHCP server to assign IP to DHCP clients
Remote Monitoring	<ul style="list-style-type: none"> • Embedded RMON agent supports RMON groups 1,2,3,9 (history,

(RMON)	statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
SNMP	<ul style="list-style-type: none"> SNMP version 1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
Firmware Upgrade	<ul style="list-style-type: none"> Web browser upgrade (HTTP/ HTTPS) and TFTP
NTP	<ul style="list-style-type: none"> Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	<ul style="list-style-type: none"> HTTP/HTTPS DHCP Client Cable Diagnostics Syslog Telnet Client; SSH IPv6 Management
Power over Ethernet	
Port Configuration	<ul style="list-style-type: none"> Supports per port PoE configuration function
PoE Scheduling	<ul style="list-style-type: none"> Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	<ul style="list-style-type: none"> Check the link status of PDs. Reboot PDs if there is no responses.
Power Delay	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 250W
Power Supply	<ul style="list-style-type: none"> Internal Power supply 100~240VAC, 50/60 Hz
Environment	<ul style="list-style-type: none"> Operating temperature: 0°C to 50°C Storage Temperature: -20 to 70°C Operating Humidity: 10% to 90% (Non-Condensing)
Dimension	<ul style="list-style-type: none"> W442 x D211 x H44mm
Certification	<ul style="list-style-type: none"> FCC, CE

Application



Ordering information

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