RP-G1518W

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

RP-G1518W web smart+ managed GbE switch is the next-generation Ethernet switch offering powerful managed features with better functionality and usability. That delivers the cost-effectively business and transports Ethernet services via fiber or copper connections.

RP-G1518W delivers 16 (10M/100M/1G) RJ45 ports and 2 GbE SFP ports. RP-G1518W 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-G1518W is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership.

Features

- 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 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
- 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 16: RJ-45 10/100/1000Mbps, auto MDI/X • Port 17 to 18: SFP(100/1000Mbps) slot • Reset Button
Forwarding Capacity	• 26.784Mpps
Switching Capacity	• 36 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

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 encrypts the http traffic, allowing advanced secure access to the

(SSL)	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 (also known 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 (RMON)	● Embedded RMON agent supports RMON groups 1,2,3,9 (history, 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/ DHCPv6 Client ● Cable Diagnostics ● Syslog ● Telnet Client; SSH ● IPv6 Management
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	● 442x 44x 211mm (WxHxD)
Certification	● FCC, CE

Application
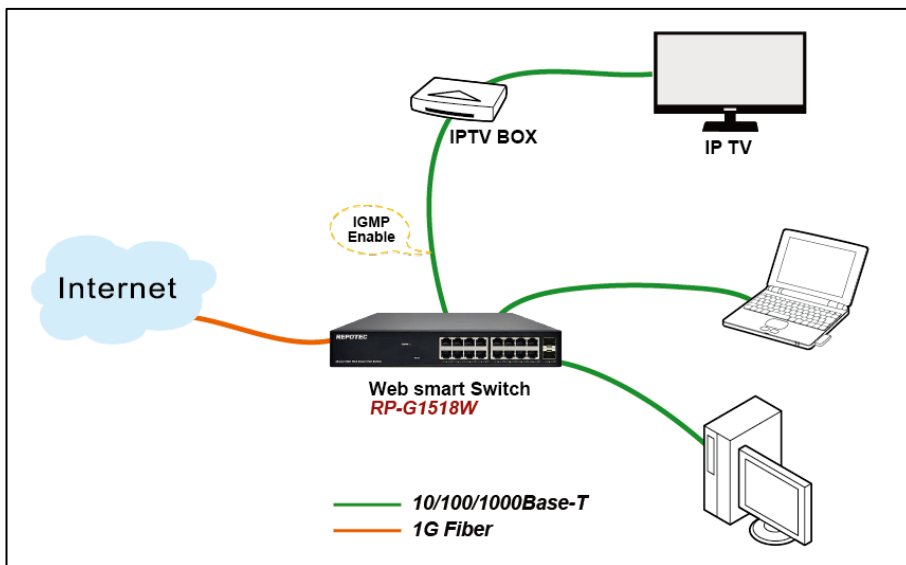
Ordering information

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