



RP-GS2028IX

20-P SFP(100/1G) + 4-SFP/TP combo + 4-SFP+(1G/10G) L2+ Managed Switch



RP-GS2028IX is a 28-port Gigabit Managed Switch which delivers 20 GbE SFP ports, 4 Combo GbE RJ45/SFP ports, 4 GbE/10G SFP+ ports and DB9 console port with built-in AC and DC dual power supply. RP-GS2028IX provides front access to all data and management ports, and a compact form factor that facilitates desktop, wall-mount, or rack-mount installations.

RP-GS2028IX supports remote management by SNMP, Http and Telnet interfaces, and local management by console interface. It offers full suite of comprehensive Layer 2 switching capabilities such as 802.1Q VLAN, 802.1x Port Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, and advanced L3 features such as Static Route that delivers the better cost performance and lower total cost of ownership in Enterprise networks or backbone via fiber or copper connections.

RP-GS2028IX is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership. The free embedded Device Managed System is designed to be extremely easy-to-use/manage/install IP Phone, IP Cam, or Wifi-AP for Enterprise Applications.

Features

- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN, Voice VLAN and Q-in-Q(double tagging) function
- Support protected Port
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1d & 802.1w & 802.1s
- IP Multicast with IGMP snooping / query / fast leave / filtering /group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control, Ingress/Egress rate control on port
- Support broadcast control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload
- Built in Device Management System (DMS)
- AC/DC Dual Power Supply
- DHCP Server
- IPv4/IPv6 L3 static route

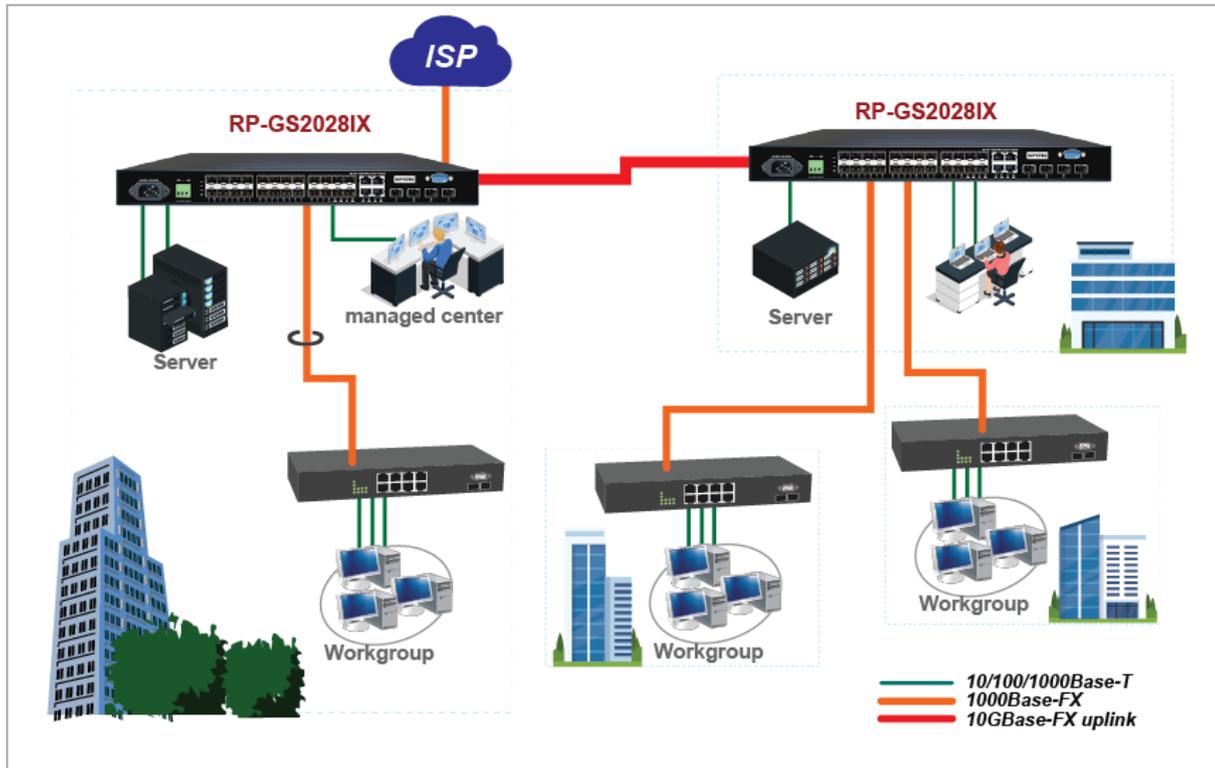
Specifications

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| Standards | <ul style="list-style-type: none"> • 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 • IEEE802.3az Energy Efficient Ethernet |
| Interface | <ul style="list-style-type: none"> • Port 1 to 20: 100M/1G SFP, • Port 21 to 24: 100M/1G RJ45/SFP Combo • Port 25 to 28: 1G/10G SFP • DB9 Console port |
| Forwarding Capacity | <ul style="list-style-type: none"> • 95.232 Mpps |
| Switching Capacity | <ul style="list-style-type: none"> • 128 Gbps |
| Jumbo frames | <ul style="list-style-type: none"> • 10056 Bytes |
| MAC Table | <ul style="list-style-type: none"> • 32K 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 <ul style="list-style-type: none"> ▪ Up to 26 groups ▪ Up to 4 ports per group |
| VLAN | <ul style="list-style-type: none"> • Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) <ul style="list-style-type: none"> ▪ Port-based VLAN ▪ 802.1Q tag-based VLAN ▪ MAC-based VLAN ▪ Management VLAN ▪ Private VLAN Edge (PVE) ▪ Q-in-Q (double tag) VLAN ▪ Voice VLAN ▪ GARP VLAN Registration Protocol (GVRP) |
| DHCP Relay | <ul style="list-style-type: none"> • Relay of DHCP traffic to DHCP server in different VLAN. • Works with DHCP Option 82 |
| IGMP v1/v2/v3 snooping | <ul style="list-style-type: none"> • IGMP limits bandwidth-intensive multicast traffic to only the requesters • Supports 1024 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"> • Deliver IPv6 multicast packets only to the required receivers |
| Layer 3 Switching | |
| IPv4 Static Routing | <ul style="list-style-type: none"> • IPv4 Unicast: Static routing |
| IPv6 Static Routing | <ul style="list-style-type: none"> • IPv6 Unicast: Static routing |
| Quality of Service | |
| Hardware Queue | <ul style="list-style-type: none"> • Supports 8 hardware queues |
| Scheduling | <ul style="list-style-type: none"> • Strict priority and weighted round-robin (WRR) |

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| | <ul style="list-style-type: none"> • Queue assignment based on DSCP and class of service |
| Classification | <ul style="list-style-type: none"> • Port based • 802.1p VLAN priority based • IPv4/IPv6 precedence / DSCP based • Differentiated Services (DiffServ) • Classification and re-marking ACLs |
| Rate Limiting | <ul style="list-style-type: none"> • Ingress policer • Egress shaping and rate control • Per port |
| Security | |
| Secure Shell (SSH) | <ul style="list-style-type: none"> • SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported |
| Secure Sockets Layer (SSL) | <ul style="list-style-type: none"> • SSL encrypts the http traffic, allowing advanced 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 | <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 address |
| 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 |
| ACLs | <ul style="list-style-type: none"> • Supports up to 512 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 |
| Management | |
| DHCP | <ul style="list-style-type: none"> • Support DHCP server to assign IP to DHCP clients |
| Zero Touch Upgrade | <ul style="list-style-type: none"> • Upgrade single switch automatically when you get notification |
| Remote Monitoring (RMON) | <ul style="list-style-type: none"> • Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis |
| 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 |

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| 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 |
| s-Flow | <ul style="list-style-type: none"> • The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats |
| 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 |
| CLI | <ul style="list-style-type: none"> • For users to configure/manage switches in command line modes |
| Dual Image | <ul style="list-style-type: none"> • Independent primary and secondary images for backup while upgrading |
| 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 • Upgrade through console port as well |
| 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; SSH • DHCP Client/ DHCPv6 Client • Cable Diagnostics • Ping • Syslog • Telnet Client • IPv6 Management |
| Power Supply | <ul style="list-style-type: none"> • Internal Power supply 100~240VAC, 50/60 Hz • Redundant Input Terminal 24-72 VDC |
| Environment | <ul style="list-style-type: none"> • Operating temperature: -20°C to 60°C • Storage Temperature: -20 to 70°C • Operating Humidity: 10 to 90% (Non-Condensing) |
| Dimension | <ul style="list-style-type: none"> • 442 x 44 x 211mm (WxHxD) |
| Certification | <ul style="list-style-type: none"> • CE, FCC |

Application



Ordering information

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