## RP-G2404I+

## 20-P 1000T + 4-1000T/SFP(100/1G) slot L2+ Managed Switch

RP-G2404I+ is a highly efficient and cost-effective Layer 2 Ethernet management switch. It offers a wide range of features and capabilities to meet the demands of modern networking. With 24 10/100/1000Mbps TX ports and 4 SFP ports, it provides ample connectivity options for various network devices and configurations, ensuring seamless communication and efficient data transfer.

This switch excels in delivering comprehensive Layer 2 switching capabilities, including 802.1Q VLAN for enhanced security and efficient traffic management. It also features advanced functionalities such as 802.1x Port Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, ACL, Spanning Tree, DHCP Relay, and IGMP QoS functions. These capabilities empower network administrators to optimize performance, ensure reliable connectivity, and streamline network management.

RP-G2404I+ establishes a reliable infrastructure for critical applications, enhancing availability, safeguarding information, and optimizing network bandwidth. Designed for small- and medium-sized businesses, it combines affordability and capabilities, enabling high-performance networks within budget constraints. With cost-effective features, the RP-G2404I+ boosts network performance and productivity.

## Features

- CISCO-like command line interface
- IPv6 management
- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN and Private VLAN
- Protected port and LoopBack Detection function
- Q-in-Q(double tagging) function
- 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
- Broadcast/Multicast/Unicast storm control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function((Phase 2)) / Dual Speed SFP Ports(100/1000Mbps)
- Remote port configuration setting and statistics monitoring
- Text configuration download and upload
- IEEE 802.3az power management / FANless / Green Ethernet

## Specifications

| Standards | <ul><li>IEEE802.3(10BaseT Ethernet ), IEEE802.3u(100Base Fast Ethernet),</li><li>IEEE802.3ab(1000BaseT), IEEE802.3z(1000Base),IEEE802.3x</li><li>IEEE802.1D, IEEE802.1w, IEEE802.1P, IEEE802.1Q, IEEE802.1x</li><li>IEEE802.3ad, EEE802.1ad</li><li>IEEE802.3az Energy Efficient Ethernet</li></ul> |
|---|---|
| Interface | <ul><li>24* RJ45 ports, with 10/100/1000Mbps, Full/Half duplex auto-negotiation and Auto-MDIX and Force MDI/MDIX function</li><li>4* 100/1G SFP Slot shared with Port 21~24 TX ports, auto-detect the connection</li></ul> |
| Console Port | <ul><li>DB9 console port</li></ul> |
| CPU | <ul><li>416MHz MIPS 24KEc CPU as the main processor which integrated on switch controller</li></ul> |
| Memory | <ul><li>Flash: SPI 16MB / RAM: DDRII 128MB</li></ul> |
| Packet Buffer | <ul><li>512K Bytes</li></ul> |
| Mac Table Size | <ul><li>8K</li></ul> |
| Max Packet Size | <ul><li>9600 Bytes</li></ul> |
| Switching capability | <ul><li>14880pps at 10Mbps</li><li>148810pps at 100Mbps</li><li>1488095pps at 1Gbps with 64 bytes packets</li></ul> |
| Switch capacity | <ul><li>48Gbps</li></ul> |
| Forwarding Rate | <ul><li>35.7Mpps</li></ul> |
| Port Control | <ul><li>Port speed, duplex mode, and flow control</li><li>Port frame size (jumbo frames), Maximum ingress frame size (9600 bytes)</li><li>Port state (administrative status)</li><li>Port status (link monitoring)</li><li>Port statistics (MIB counters)</li><li>Port VeriPHY (cable diagnostics)</li><li>Power Control</li></ul> |
| L2 Switching | <ul><li>Auto MAC address learning/aging and MAC addresses (static)</li><li>IEEE 802.1Q static VLAN, Private VLAN, Port isolation, Port Based VLAN</li><li>IEEE 802.1ad Provider Bridge</li><li>IEEE 802.1D STP/802.1w RSTP/802.1s MSTP</li></ul> |

| | |
|---|---|
| | <ul><li>IEEE 802.3ad Link Aggregation, static and LACP</li><li>BPDU guard and restricted role, BPDU transparency</li><li>DHCP client, DHCP snooping, DHCP option 82 relay</li><li>ARP inspection</li><li>Port mirroring</li><li>IP MAC binding</li></ul> |
| **Layer 2 Multicast** | <ul><li>IGMPv2, v3 snooping, (1024 groups)</li><li>IGMP throttling, filtering, and leave proxy</li><li>MVR</li></ul> |
| **QoS** | <ul><li>8 Priority Queues per Port</li><li>Port Based priority</li><li>Scheduler priority</li><li>QoS Control List</li><li>Storm control for UC, MC, and BC</li><li>Policing and shaping per port and per queue</li><li>Ingress Policing:(100-1000000 when the "Unit" is "kbps" or "fps" and 1-3300 when the "Unit" is "Mbps" or "kfps")</li><li>Egress Shaping:(100-1000000 when the "Unit" is "kbps", and 1-3300 when the "Unit" is "Mbps".)</li><li>DiffServ (RF 2474) remarking</li><li>Tag remarking</li></ul> |
| **Security** | <ul><li>Port-based 802.1X, Single 802.1X, Multiple 802.1X</li><li>MAC-based authentication, VLAN assignment, QoS assignment</li><li>Guest VLAN</li><li>RADIUS accounting</li><li>MAC address limit</li><li>TACACS+</li><li>Web and CLI authentication and authorization</li><li>Authorization ( 15 levels)</li><li>ACLs for filtering(256 entries), policing, and port copy</li><li>IP source guard</li></ul> |
| **Synchronization** | <ul><li>NTPv4 Client</li></ul> |
| **Power Saving** | <ul><li>ActiPHY, PerfectReach</li><li>Ethernet Energy Efficient power management(EEE)</li></ul> |
| **SFP DDMI** | <ul><li>Yes (Phase 2)</li></ul> |
| **Management** | <ul><li>HTTP server</li><li>CLI console port</li><li>Telnet</li><li>Management access filtering</li><li>SSHv2 and HTTPS</li><li>IPv6 Management</li><li>System Syslog</li><li>Software download through Web</li><li>SNMPv1/v2c/v3 Agent</li><li>RMON Group 1, 2, 3, and 9</li><li>IEEE 802.1AB-2005 Link Layer Discovery, LLDP</li><li>Text Configuration download or upload</li><li>sFlow</li></ul> |
| **LED Indicators** | <ul><li>Power (Green)</li><li>System(Green)</li></ul> |

| | ● Link / Act: 1000Mbps (Green); 10/100Mbps (Amber) |
|---|---|
| **Power Consumption** | ● 18 Watt Max. |
| **Power Supply** | ● Internal Power supply 100~240VAC, 50/60 Hz |
| **Environment** | ● Operating temperature: 0°C to 50°C |
| | ● Operating Humidity: 10% to 90% (Non-Condensing) |
| **Dimension** | ● 330 * 205 * 43 mm |
| **Certification** | ● FCC, CE |

# Application
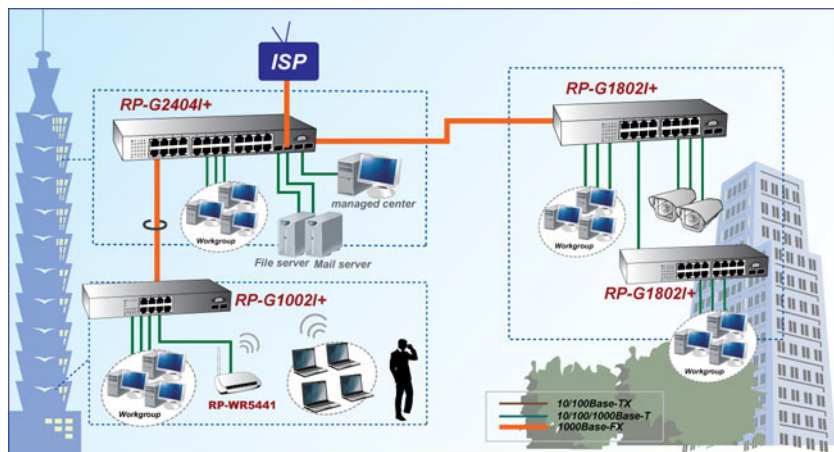


# Ordering information

**RP-G2404I+**　　　　20-P 1000T + 4-1000T/SFP(100/1G) slot L2+ Managed Switch