RP-PG2652I | RP-PG2652IL

48-P Gigabit + 4-SFP+ (100/1G) Slot
L2+ Managed PoE+ Switch

RP-PG2652I L2+ Managed PoE+ Switch is a next-generation Ethernet Switch offering full suite of L2 features, better PoE functionality and usability, including advanced L3 features such as Static Route that delivers better cost performance and lower total cost of ownership in Enterprise networks via fiber or copper connections.

RP-PG2652I delivers 48 (10M/100M/1G) RJ45/PoE+ (Support 802.3at/af, and total up to 740W or 370W) ports, 4 100/1G SFP+ ports and RJ45 Console port. RP-PG2652I provides high HW performance and environment flexibility for SMBs and Enterprises.

RP-PG2652I is ideal to deliver management simplicity, intuitive user experience, and Lower Total Cost of Ownership (TCO) with Energy-efficient Design. The 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

- L2+ features provide better manageability, security, QoS, and performance.
- PoE Port configuration and scheduling, 802.3at high power PoE plus standard
- Built in Device Management System (DMS)
- DHCP Server
- IPv4/IPv6 L3 static route
- Support SSH/SSL secured management
- Support SNMP v1/v2c/v3
- Support RMON groups 1,2,3,9
- Support sFlow
- Support IGMP v1/v2/v3 Snooping
- Support MLD v1/v2 Snooping
- Support RADIUS and TACACS+ authentication
- Support IP Source Guard
- Support DHCP Relay (Option 82), DHCP Snooping
- Support ACL and QCL for traffic filtering
- Support 802.1d(STP), 802.1w(RSTP) and 802.1s(MSTP)
- Support LACP and static link aggregation
- Support Q-in-Q double tag VLAN
- Support GVRP dynamic VLAN
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet

Specifications

Standards	- 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 - IEEE802.3at/af PoE standard - IEEE802.3az Energy Efficient Ethernet
Interface	- Port 1 to 48: RJ-45 10/100/1000Mbps with 802.3af/at PoE, auto MDI/X - Port 49 to 52: SFP (100/1000Mbps) slot - RJ-45 Console port - Mode/Reset Button
Forwarding Capacity	77.38 Mpps
Switching Capacity	104 Gbps
Jumbo frames	10240 Bytes
MAC Table	32K 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 - Up to 26 groups - Up to 16 ports per group
VLAN	- Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) - 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	- Relay of DHCP traffic to DHCP server in different VLAN. - Works with DHCP Option 82
IGMP v1/v2/v3 snooping	- IGMP limits bandwidth-intensive multicast traffic to only the requesters - Supports 1024 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	Deliver IPv6 multicast packets only to the required receivers
Layer 3 Switching	
IPv4 Static Routing	IPv4 Unicast: Static routing
IPv6 Static Routing	IPv6 Unicast: Static routing
Security	
Secure Shell (SSH)	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are

	supported
Secure Sockets Layer (SSL)	● SSL encrypts the http traffic, allowing advanced 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
ACLs	● Supports up to 256 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 ● IPv4/IPv6 precedence / DSCP based ● Differentiated Services (DiffServ) ● Classification and re-marking ACLs
Rate Limiting	● Ingress policer ● Egress shaping and rate control ● Per port
Management	
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
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

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
s-Flow	● 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)	● 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
CLI	● For users to configure/manage switches in command line modes
Dual Image	● Independent primary and secondary images for backup while upgrading
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 ● Upgrade through console port as well
NTP	● Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	● HTTP/HTTPs; SSH ● DHCP Client/ DHCPv6 Client ● Cable Diagnostics ● Ping ● Syslog ● Telnet Client ● IPv6 Management
Power over Ethernet (PoE)	
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	● 740 Watts or 370Watts
Power Supply	● Internal Power supply 100~240VAC, 50/60 Hz
Environment	● Operating temperature: 0°C to 40°C ● Storage Temperature: -20 to 70°C ● Operating Humidity: 10% to 90% (Non-Condensing)
Dimension	● 442 x 44 x 375mm (WxHxD)
Certification	● FCC, CE, EN61000-4-5 (for RJ45 Port, Surge 6KV)

Application
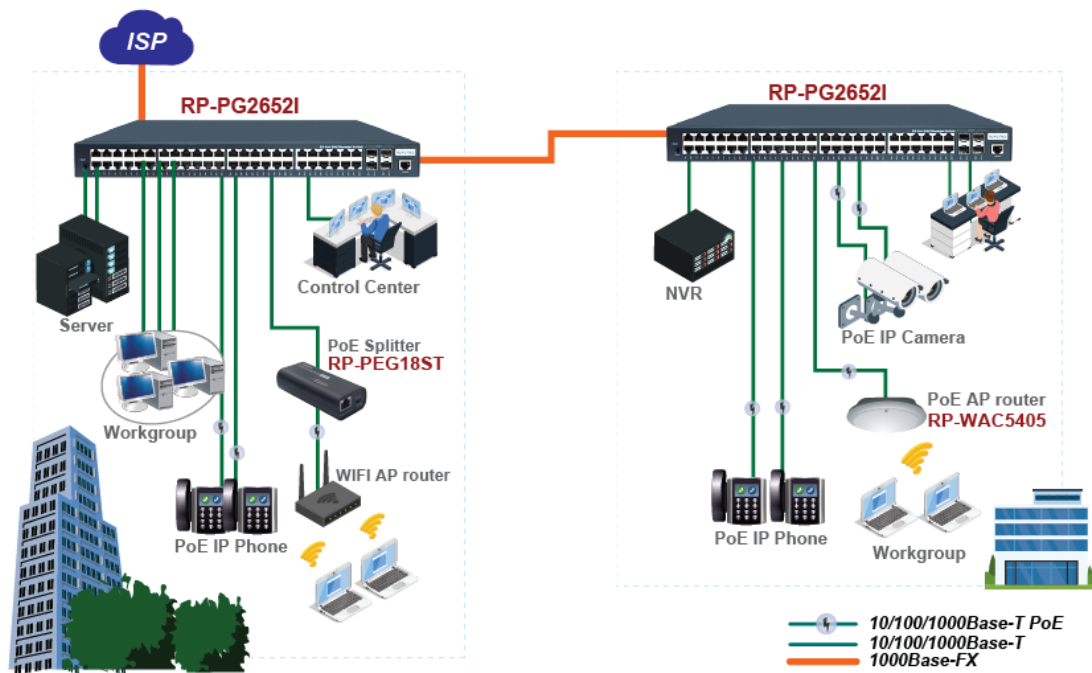
Ordering information

RP-PG2652I   48-P Gigabit + 4-SFP+(100/1G) slot L2+ Managed PoE+ Switch (720W)

RP-PG2652IL   48-P Gigabit + 4-SFP+(100/1G) slot L2+ Managed PoE+ Switch (370W)