

RP-PG3252X

48-P Gigabit + 4-SFP(1G/10G) slot L2+ Managed PoE+ Switch



The RP-PG3252X, the next generation L2+ managed switch, provides a reliable infrastructure for your business network. This switch delivers more intelligent features you need to improve the availability of your critical business applications, protects your sensitive information, and optimizes your network bandwidth to deliver information and applications more effectively. With PoE (Power over Ethernet) function built in, it provides the ideal combination of affordability and capabilities for entry level networking of small business or enterprise which demands IP phone, IP camera or wireless applications, thus helps you create a more efficient, better-connected workforce.

Feature

- L2+ features provide better manageability, security, QoS, and performance.
- High port count design with all Gigabit Ethernet ports
- Dual speed SFP+s for GbE or 10G fiber uplink
- Support guest VLAN, voice VLAN, Port based, tag-based and Protocol based VLANs
- Support 802.3az Energy Efficient Ethernet standard
- Support 8K MAC table
- Support IPv6/ IPv4 Dual stack
- Support s-Flow
- Support 802.3at and compliant with 802.3af.
- Support Easy-Configuration-Port for easy implement the IP Phone, IP Camera or Wireless environment.
- Supports per port PoE configuration function
- Supports per port PoE scheduling to turn on/off the PoE

Specification

Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet (twisted-pair copper) • IEEE 802.3u 100Base-TX Ethernet (twisted-pair copper) • IEEE 802.3ab 1000Base-T Ethernet (twisted-pair copper) • IEEE 802.3z 1000Base-SX/LX Ethernet • IEEE 802.3at PoE • IEEE802.3az Energy Efficient Ethernet
Interface	<ul style="list-style-type: none"> • Port 1 to 48: RJ-45 10/100/1000 Mbps or 802.3af/at PoE • Port 49 to 52: SFP (1G/10G) slots • Console Port: RJ-45 console port
Switching capacity and forwarding rate	<ul style="list-style-type: none"> • 130.94 mpps (Capacity in Millions of Packets per Second) (64-byte packets) • 176 Gbps (Switching Capacity in Gigabits per Second)
Jumbo frames	<ul style="list-style-type: none"> • Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table	<ul style="list-style-type: none"> • Up to 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 8 ports per group
VLAN	<ul style="list-style-type: none"> • Support for 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)
Voice VLAN	<ul style="list-style-type: none"> • Voice traffic is automatically assigned to a voice-specific VLAN and treated with appropriate levels of QoS
Generic VLAN Registration (GVRP)	<ul style="list-style-type: none"> • Protocols for automatically propagating and configuring VLANs in a bridged domain
DHCP Relay (Layer 2)	<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 (source-specific multicasting is also supported)
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"> • Support IGMP Proxy
MLD v1/v2 snooping	<ul style="list-style-type: none"> • Deliver IPv6 multicast packets only to the required receivers
Security	
Secure Shell (SSH) Protocol	<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"> • Supports illegal IP address access 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
ACLs	<ul style="list-style-type: none"> • Support for 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, IGMP packets, TCP flag
Quality of Service	
Hardware Priority Queue Scheduling	<ul style="list-style-type: none"> • Support 8 hardware queues • Strict priority and weighted round-robin (WRR) • Queue assignment based on DSCP and class of service (802.1p/ CoS)
Classification	<ul style="list-style-type: none"> • Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS
Rate Limiting	<ul style="list-style-type: none"> • Ingress policer; egress shaping and rate control; per VLAN, per port and flow based
IPv6 applications	<ul style="list-style-type: none"> • Web/ SSL, Telnet/ SSH, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, Syslog
Management	
Web GUI interface	<ul style="list-style-type: none"> • Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPS). Supports configuration, system dashboard, maintenance, and monitoring
Dual Image	<ul style="list-style-type: none"> • Dual image provides independent primary and secondary OS files 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)
Remote Monitoring (RMON)	<ul style="list-style-type: none"> • Embedded RMON software agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
IPv4 and IPv6 dual stack	<ul style="list-style-type: none"> • Coexistence of both protocol stacks to migration
Firmware upgrade	<ul style="list-style-type: none"> • Web browser upgrade (HTTP/ HTTPS) and TFTP • Upgrade through console port as well
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.
Easy-Configuration-Ports	<ul style="list-style-type: none"> • Easily to configure of clients' QoS and Security capabilities
Other management	<ul style="list-style-type: none"> • Single IP management • HTTP/HTTPS; SSH; RADIUS; DHCP Client/ DHCPv6 Client • SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)
s-Flow	<ul style="list-style-type: none"> • The industry standard technology 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
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
Green Ethernet	
Link detection	<ul style="list-style-type: none"> Compliant with IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or idle of client. Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	<ul style="list-style-type: none"> Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter
Discovery	
Link Layer Discovery Protocol (LLDP) (IEEE802.1AB) with LLDP-MED extensions	<ul style="list-style-type: none"> Used by network devices for advertising their identity, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.
Environmental	
PoE Power Budget	<ul style="list-style-type: none"> Max. 380W (with PD device connected)
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 40°C Operating Humidity: 10% to 90% (Non-Condensing)
Dimension	<ul style="list-style-type: none"> 442 * 385 * 44 mm
Certification	<ul style="list-style-type: none"> FCC, CE

Ordering information

RP-PG3252X 48-P Gigabit + 4-SFP(1G/10G) slot L2+ Managed PoE+ Switch (380W)

Address : Perpa Ticaret Merkezi, A Blok No.295 Sisli/Istanbul | Tel : +90 212 3204030 | Fax : +90212 3200255 | e-mail : info@telcolink.com

www.telcolink.com

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Quality Link Connections

