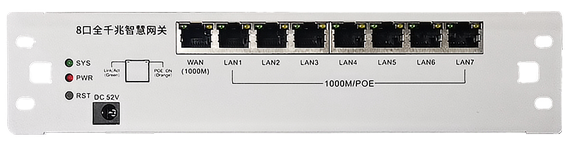
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# **RG-P Series**

Gigabit POE Routers

## Products Description

The RG-P series is a product specially customized by TG for residential and villa scenarios. It provides large bandwidth, high concurrency, low latency, stable, safe, and reliable network transmission solutions; original unrestricted multi-level multi-user fair competition algorithm and The intelligent scheduling algorithm, combined with high-precision 7-layer DPI automatic identification technology, multi-line shunt technology, cloud computing technology and centralized equipment management, achieves high efficiency, simplicity, and easy maintenance, which is very suitable for home users.

## Main Features

* 50W power supply, 4/7 LAN ports all support IEEE802.3af/at standard PoE power supply, suitable for building wireless networks in villas, small businesses, offices and other environments, without additional purchase of AC and PoE switches, simple networking, easy deployment and maintenance, Cost-effective.
* Leading the era of intelligent flow control 4.0, original unrestricted multi-level multi-user fair competition algorithm and intelligent scheduling algorithm one-click start, unlimited speed, no client, to maximize bandwidth utilization, flow control intelligence, scheduling automation, The configuration is extremely simplified; it combines high-precision 7-layer DPI automatic identification technology, multi-line shunt technology, cloud computing technology and centralized equipment management to achieve high efficiency, simplicity and easy maintenance.
* Efficient DPI engine, 1000+ application recognition, no client required, fast and accurate recognition of various seven-layer applications such as web pages, videos, games, P2P, and different priority applications specify different channels.
* Professional AC controller, which can manage 8 APs by default, discover new access APs in seconds, and read the wireless controller configuration template after startup. It supports one-key configuration delivery, one-key synchronization, batch restart, and batch radio shutdown , Wireless roaming, 5G priority and other functions, greatly reducing installation and maintenance costs and workload.
* Support intelligent routing, main and backup lines, multi-line dialing, multi-line load balancing, etc., to maximize bandwidth investment.
* Three steps to get online, simple operation, great effect, one-key flow control, simple unlimited speed, 100% utilization of bandwidth.

## Product Specifications

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| **Product Information** | | | | |
| Product Model | | **RG505P** | | **RG808P** |
| **Hardware specifications** | | | | |
| Fixed port | | 4\*10/100/1000 Base-T ports(POE/POE+,LAN)  1\*10/100/1000 Base-T | | 7\*10/100/1000 Base-T ports(POE/POE+,LAN)  1\*10/100/1000 Base-T |
| WAN Ports | | Upto 4 | | Upto 7 |
| CPU | | 880M | | |
| Memory | | 128M | | |
| FLASH | | 16M | | |
| Operating environment | | Operating temperature: 0°C -50°C | | |
| Relative humidity: 5%–95% (non-condensing) | | |
| Dimensions | | 225(L)×50(W)×24.5(H)mm | | |
| Weight | | <1kg | | |
| Input Voltage | | DC:52V/1A | | |
| Power consumption | | <52W | | |
| **Software specifications** | | | | |
| Expert Wizard | Support quick guide and expert guide to meet the needs of quick scene configuration | | | |
| system status | Overview | | Support real-time statistics of router load (CPU / memory), real-time traffic monitoring,  application proportion statistics,  interface status,  system status | |
| routing | | Supports statistical analysis of active IPV4 links | |
| System log | | Support statistical records of other logs such as security, interface, operation, etc. Support configuration in debug mode | |
| real time monitoring | | Support real-time monitoring and statistics of total traffic, sub-WAN and sub-LAN traffic and packet forwarding, real-time statistics of CPU load and number of connections | |
| History monitoring | | Support historical monitoring statistics on total traffic, WAN and LAN traffic, and packet forwarding | |
| Host monitoring | | Support for all Intranet hosts of traffic and the number of connection statistics and alarms, support for alarm configuration parameters | |
| Applied Statistics | | Support traffic statistics and application proportion statistics for each application category in the intranet | |
| QQ Online List | | Support statistics of online QQ in intranet | |
| Interface overview | | Support real-time status statistics of hardware interfaces and virtual interfaces | |
| Configuration | Extranet configuration | | Support WAN port configuration, support fixed IP, automatically obtain IP, PPOE / ADSL and other configurations | |
| Intranet configuration | | Support for IP and mask configuration of intranet LAN port, support IP extension | |
| Port Mapping | | Support 1 to 1, 1 to N port mapping and rule making | |
| QoS flow control | | Support intelligent flow control and custom flow control settings, which can give priority to server resources | |
| Multi-line strategy | | Support multi-line access intelligent line selection, main and auxiliary mode, load balancing, main and standby mode; support application distribution and policy routing, support line detection; | |
| ARP binding | | Support ARP statistics and binding | |
| Routing password | | Support hierarchical and sub-rights management of routers | |
| DHCP | | Support static or dynamic DHCP allocation for routing LAN ports, real-time monitoring of active clients and other DHCP | |
| Network protocol | Basic Agreement | | Support IPV4 TCP / IP protocol stack | |
| IP routing | | Support static routing, policy routing | |
| DNS | | Support DNS Client / Proxy | |
| Support based on 3322 DDNS; | |
| DHCP | | Support DHCP Client, DHCP Server | |
| Network interconnection | Static IP | | Support port-based IP address configuration | |
| Support 802.1Q-based sub-interface management | |
| Dynamic IP | | Support to actively obtain IP | |
| VPN | | PPTP VPN, IPSEC VPN | |
| Operating mode | NAT | | Support NAT address translation function (dynamic, static, reverse address translation) | |
| routing | | Support standard and efficient router forwarding | |
| Mixed mode | | Support multi-WAN NAT and routing mode mixed use | |
| Flexible port | | Support lan and wan port interchange, flexible management | |
| flow control | Intelligent flow control | | Intelligent flow control based on seven-layer protocol | |
| Conventional flow control | | Support flow control based on IP and IP segment | |
| Support routing strategy, application scheduling, multi-line aggregation, intelligent balancing (adjust the load balancing strategy according to real-time traffic conditions) | |
| Support multi-line connection with different operator networks and realize load distribution according to strategy; | |
| cyber security | ACL | | Supports access control lists based on IP and network segments | |
| Support port-based access control list | |
| Support MAC address based access control list | |
| ARP defense | | Support IP / MAC binding, ARP attack defense, APR trust mechanism | |
| Attack defense | | Support connection limit, and limit the number of UDP and TCP connections separately | |
| Support MAC filtering | |
| Can prevent short packets, prevent fragmented packets | |
| Support DDoS attack, flood attack, syn attack defense | |
| Behavior management | Application control | | Support one-key management and control, one-key block application, support manual configuration block application | |
| QQ application control | | Support QQ list and white list settings | |
| Firewall | | Support built-in firewall rule definition | |
| URL redirect | | stand by | |
| URL filtering | | stand by | |
| DNS filtering | | stand by | |
| Internet application | Notification system | | Support account expiration reminder, block online announcement, push announcement, homepage push | |
| Pppoe server | | Support pppoe internal dial-up Internet | |
| Port Mapping | | Support DMZ settings, one-to-one, one-to-many port mapping, one-to-one nat | |
| Shared crack | | Supports cracking of sharing restrictions such as operator network vanguard | |
| Network diagnosis | | Support Ping detection, Traceroute route tracking, Nslookup domain name query | |
| Group management | | Support ip grouping, protocol grouping, port grouping | |
| Time management | | Support management at different time periods | |
| DDNS | | Support mainstream dynamic static domain names (3322., dyndns and other major service agreements) | |
| DNS | | Support DNS forwarding, mandatory dns (dns plug and play) dns proxy (gateway as dns) | |
| Device management (optional) | AP unified management | | Support unified management configuration and upgrade of AP | |
| Certification management | | Support the management and configuration of WeChat and wifi authentication | |
| Switch management | | Support configuration management of the switch | |
| Advanced configuration | Advanced interface configuration | | Support the configuration of NAT and routing mode of WAN port | |
| Interface mode | | Support connection status, single-duplex, negotiated rate monitoring | |
| Anti-secondary routing | | stand by | |
| UPnP | | Allow clients in the LAN to automatically set port forwarding rules on the route | |
| Port mirroring | | stand by | |
| PPPOE relay | | stand by | |
| UDP broadcast relay | | stand by | |
| System Management | TG Cloud Management | | Support TG AI platform management | |
| WEB management | | Support WEB visual management and bilingual switching between Chinese and English | |
| time setting | | Support NTP clock server, automatic time synchronization | |
| Firmware upgrade | | Support online cloud upgrade, two ways to upgrade firmware locally | |
| Protocol upgrade | | Support online cloud upgrade, local upgrade protocol library two ways | |
| System diagnosis | | Supports system and game diagnosis, diagnosis of load, interface traffic, line quality, logs and configuration | |
| WEB access management | | Support to configure external access routing | |
| Configuration management | | Support configuration backup, configuration restoration, and configuration restoration | |
| Log management | | Support local log, cloud log server | |

## Order Information

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| **Items** | **Product Description** | **Remarks** |
| RG505P | 4\*10/100/1000 Base-T ports(POE/POE+,LAN),1\*10/100/1000 Base-T ports(WAN), Support 32 wireless access points by default, Scalable to 64(by License). | required |
| RG808P | 7\*10/100/1000 Base-T ports(POE/POE+,LAN),1\*10/100/1000 Base-T ports(WAN), Support 32 wireless access points by default, Scalable to 64(by License). | required |
| AC-license-16 | License for the expansion of 16 wireless access points | Optional |
| AC-license-32 | License for the expansion of 32 wireless access points | Optional |

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