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# **RG Series**

Gigabit Load Balance Routers

## Products Description

TG RG router series builds a real multiservice broadband platform by providing rich software functions such as routing,safety,VPN and AC controller .

The RG router series can be deployed as an egress router for small- to medium-sized enterprise networks to operate with VPN, NAT, and IPSec service gateways. Together with other TG products, The RG router series can provide comprehensive network solutions for government, financial, public security, Hotels, businesses, hospitalsand education customers.

## Main Features

* **Flow Control**

The RG router series is based on the fourth generation of flow control technology to support more accurate application identification. All traffic can be divided into six business channels: game, chat, web page, common, video, and download in order of priority to achieve priority for application traffic.

RE router series supports 1000+ kinds of application identification, covering more than 90% of common applications, and supports regularly updating the application identification feature database to enrich application identification.

* **VPN**

The RG router series supports the visual configuration of VPNs such as PPTP, L2TP, IPSec and other protocols. It can visually monitor the VPN connection status in real time, so that companies that are not located can still share data services, access intranet resources, improve office efficiency, and reduce operation and maintenance costs .

* **Behavior management**

The RG router series supports one-click killing of applications such as QQ, WeChat, online video, games, shopping, portable WiFi, etc., to control employees' online behavior, and to protect office business. It also supports QQ list management, URL redirection, and WEB URL filtering to ensure network security.

* **Application triage**

The RG router series supports application offloading. It can be configured to offload data streams or packets to designated external network operators' lines according to time group, IP group, port group, and application protocol to maximize network security and reasonable use of bandwidth. This can achieve intelligent distribution of the network.

* **Safety network**

The RG router series has a built-in firewall, which can customize protocols, enter and exit IP groups, ports, time groups, etc.

ARP attack prevention, including fixed source MAC address, ARP attack protection, ARP source suppression, ARP detection, source MAC consistency check and protection, ARP rate limit, and ARP active acknowledgement mechanism.

* **Management**

The RG router series supports TG cloud remote operation and maintenance management. Customers can perform remote operation and maintenance management anytime, anywhere through a computer terminal.

Support TG AI network platform for management.

The RG router series can manage wireless access points and switches, and can perform unified management configuration.

## Product Specifications

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| **Product Information** |
| Product Model | **RG1005** | **RG1505** | **RG3505** | **RG8506** | **RG9506** |
| **Hardware specifications** |
| Fixed port | 5\*10/100/1000 Base-T ports | 5\*10/100/1000 Base-T ports | 5\*10/100/1000 Base-T ports | 6\*10/100/1000 Base-T ports | 6\*10/100/1000 Base-T ports |
| WAN Ports | Upto 4 | Upto 4 | Upto 4 | Upto 5 | Upto 5 |
| Consloe | 0 | 1 | 1 | 1 | 1 |
| CPU | 880MHz | 880MHz | 880MHz | 1.8GHz Dual-core | 1.8GHz Dual-core |
| Memory | 128M | 256M | 256M | 2G | 2G |
| FLASH | 16M | 32M | 32M | 32G | 32G |
| Operating environment | Operating temperature: 0°C -50°C |
| Relative humidity: 5%–95% (non-condensing) |
| Dimensions | 290(L)×180(W)×44.5(H)mm | 440(L)×285(W)×44.5(H)mm |
| Weight | <1.5kg | <3kg | <3kg | <5.5kg | <5.5kg |
| Input Voltage | AC:100～240V/50～60Hz |
| Power consumption | <12W | <30W | <30W | <60W | <60W |
| **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** |
| RG1005 | 5\*10/100/1000 Base-T ports(WAN Ports Upto 4), Support 32 wireless access points by default, Scalable to 128 | required |
| RG1505 | 5\*10/100/1000 Base-T ports(WAN Ports Upto 4), Support 32 wireless access points by default, Scalable to 128 | required |
| RG3505 | 5\*10/100/1000 Base-T ports(WAN Ports Upto 4), Support 32 wireless access points by default, Scalable to 128 | required |
| RG8506 | 6\*10/100/1000 Base-T ports(WAN Ports Upto 5), Support 32 wireless access points by default, Scalable to 512 | required |
| RG9506 | 6\*10/100/1000 Base-T ports(WAN Ports Upto 5), Support 32 wireless access points by default, Scalable to 1024 | 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 |
| AC-license-64 | License for the expansion of 64 wireless access points | Optional |
| AC-license-128 | License for the expansion of 128 wireless access points | Optional |
| AC-license-256 | License for the expansion of 256wireless access points | Optional |
| AC-license-512 | License for the expansion of 512 wireless access points | Optional |

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