

# Load Balance Broadband Router

MODEL: TL-R480T+



## Highlights

- Up to 4 WAN ports equipped with advanced load balance to guarantee maximum bandwidth and backup capabilities
- Load Balancing automatically selects the best route to the destination according to the load
- Captive portal provides convenient guest authentication while promoting your business
- Abundant security features including ARP Inspection, DoS Defense, URL/Keyword Domain Filter and Access Control

## Overview

The TL-R480T+ load balance broadband router is a wise choice for small business. It brings you high return on investment with low overhead. Featured with three changeable WAN/LAN ports, TL-R480T+ supports up to 4 WAN ports, which can satisfy various Internet access requirements through one device. TL-R480T+ integrates multiple load balancing strategies, advanced QoS and strong firewall to provide you with consistent network uptime and reliable Ethernet connectivity. Moreover, it is easy to manage the TL-R480T+ via a web-based utility, which makes building and managing your network more convenient.

## Three Changeable WAN/LAN Ports

The TL-R480T+ features three changeable ports that can be set to either LAN or WAN, allowing the router to support up to four WAN ports to satisfy various Internet access requirements through one device. The router also has an integrated smart load balancing function which automatically selects the most efficient line according to load and bandwidth requirements, providing users with consistent network uptime and reliable Ethernet connectivity.

## Abundant Security Features

For defense against external threats, TL-R480T+ can automatically detect and block Denial of service (DoS) attacks such as TCP/UDP/ICMP Flooding, Ping of Death and other related threats. Moreover, this router provides IP/MAC/URL/Web filtering functions, which forcefully prevent attacks from intruders and viruses. For applications such as FTP, H.323, SIP, IPsec and PPTP which are not well compatible with NAT, TL-R480T+ offers administrators one-click enable of ALG choices corresponding to the above five applications.

## Efficient Access Management

Portal authentication enables administrators to only allow users with legal accounts that have passed authentication to access the Internet. Cooperating with IP-based Bandwidth Control, it is capable of confining bandwidth usage of certain accounts.

## Safety Minded Enterprise Investments

Professional lightning protection technology is designed to prevent electrical surges from penetrating the interior of the device, to be discharged harmlessly into the Earth. This router is designed to prevent lightning damage of up to 4KV in the well-grounded connection conditions. This feature ensures that networking infrastructure investments remain as safe as possible from one of Mother Nature's more violent elements.

# Specifications

| Hardware                 |  |
|--------------------------|--|
| Standards and Protocols  | IEEE 802.3, IEEE802.3u, IEEE802.3x<br>TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DDNS             |
| Interface                | 1 Fixed Ethernet WAN Port<br>1 Fixed Ethernet LAN Port<br>3 Changeable Ethernet WAN/LAN Ports      |
| Network Media            | 10BASE-T: UTP category 3, 4, 5 cable (Max 100m)<br>100BASE-TX: UTP category 5, 5e cable (Max 100m) |
| Button                   | Reset Button   |
| Power Supply             | Internal Universal Power Supply<br>AC100~240V~ 50/60Hz Input                                       |
| Flash                    | 16MB   |
| DRAM                     | 128MB  |
| LED                      | PWR, SYS, WAN, LAN, WAN/LAN  |
| Dimensions ( W x D x H ) | 11.6x7.1x1.7 in.(294x180x44 mm)  |
| Performance              |  |
| Concurrent Session       | 30000  |
| NAT Throughput           | 95Mbps   |
| Basic Functions          |  |
| WAN Connection Type      | Static/Dynamic IP,<br>PPPoE,<br>PPTP,<br>L2TP,<br>Dual Access,<br>Bigpond Cable                    |
| DHCP                     | DHCP Server/Client<br>DHCP Address Reservation   |
| MAC Clone                | Modify WAN MAC Address   |
| IPTV                     | Bridge, Custom   |
| IPv6                     | IPv6 Support   |
| VLAN                     | 802.1Q VLAN, Port VLAN   |
| Transmission             |  |
| Load Balance             | Intelligent Load Balance<br>Link Backup (Timing, Failover)<br>Online Detection                     |
| NAT                      | One-to-One NAT, Multi-nets NAT, Virtual Server, Port Triggering<br>FTP/H.323/SIP/IPsec/PPTP ALG    |
| Routing                  | Static Routing<br>Policy Routing   |
| Session Limit            | IP-based Session Limit   |
| Bandwidth Control        | IP-based Bandwidth Control   |

| <b>Security</b>       |   |
|-----------------------|---|
| Attack Defense        | TCP/UDP/ICMP Flood Defense<br>Block TCP Scan (Stealth FIN/Xmas/Null)<br>Block Ping from WAN   |
| Filtering             | MAC Filtering<br>URL/Keywords Filtering   |
| ARP Inspection        | Sending GARP Packets<br>ARP Scanning by WAN/LAN<br>IP-MAC Binding   |
| Access Control        | Source/Destination IP Based Access Control  |
| <b>Authentication</b> |   |
| Web Authentication    | Local User Authentication,<br>Radius Sever Authentication,<br>Onekey Online   |
| <b>Management</b>     |   |
| Service               | Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe)<br>UPnP   |
| Maintenance           | Web Management Interface, Remote Management<br>Export & Import Configuration, SNMP<br>Diagnostics(Ping & Traceroute), NTP Synchronize<br>Syslog Support   |
| <b>Others</b>         |   |
| Certification         | CE, FCC, RoHS   |
| Package Contents      | TL-R480T+, Power Cord, RJ-45 Ethernet Cable, Installation Guide, Rack-mount Kit   |
| System Requirements   | Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7/8/8.1/10<br>MAC OS, NetWare, UNIX or Linux  |
| Environment           | Operating Temperature: 0 C to 40C (32 F to 104F)<br>Storage Temperature: -40 C to 70C (-40F to 158F)<br>Operating Humidity: 10% to 90% non-condensing<br>Storage Humidity: 5% to 90% non-condensing |