TP-LINK®

Load Balance Broadband Router
TL-R488T

- **4 10/100Mbps WAN ports, 1 10/100Mbps LAN port**
- **Quad-bandwidth, enjoys multi-services provided by different ISPs and 4 times the egress bandwidth**
- **Load Balancing, automatically selects the best line according to the load**
- **IP and port based QoS enables your streaming multimedia, Video Teleconferencing, gaming etc. with high performance**
- **IP and MAC Address binding limits the ability of hostile entities to attack the network**
- **Supports access control based on time of day**

Discription：

TL-R488T provides four WAN ports in a single router. It is ideal as the malfunction of one port won't lead to network failure as other ports will work as backups making the faulty connection redundant. At the same time, network traffic is managed to ensure that data is properly distributed to each port.

- **Multi-bandwidth, easily realize**
  - Different ISP lines have their own services, with multi-bandwidth, users can enjoy multi-services provided by different ISPs.
  - Connection line backups.
  - Quad-WAN ports 4 times the egress bandwidth

- **Load Balancing, automatically selects the best line according to the load**
  The internal automatic line diversion strategy can distribute data streams according to the bandwidth proportion and occupancy rate to raise the utilization rate of multi-line broadband. The users can truly experience multi-line broadband through the full use of multi-line resource.

- **IP and Port Based QoS**
  Quality of service is the ability to provide different priority to different applications, users, or data flows, or to guarantee a certain level of performance to a data flow. Quality of service guarantees are important if the network capacity is insufficient, especially for real-time streaming multimedia applications such as voice over IP and IP-TV. TL-R488T supports IP and port based QoS, it enables your streaming multimedia, video teleconferencing, gaming etc. with high performance.

- **IP and MAC Address binding efficiently avoids network attack**
  IP and MAC Address binding ensure that only those computers that pass verification using both the correct IP and MAC address can access the network thereby limiting the ability of hostile entities to attack the network. It protects your network from ARP attacks, man-in-the-middle attacks and IP spoofing.

- **Strong firewall forcefully prevents attacks from intruders and viruses**
  TL-R488T provides strong attack and defense function and supports internal and external attack precaution. It is especially effective in the prevention of DoS Attacks----ICMP Flood, UDP Flood, SYN Flood, Ping of Death, WinNuke, Land Attack etc. and guarantees long and stable operation for Internet cafes/SMB (Small and Medium Business).

- **WAN interface online detecting and testing**
  WAN interface online detecting and testing is to inspect the connectivity of lines through PING detecting or DNS request, and it is of great help for administrators to check and rule out the barriers and mistakes. Online detecting checks the responding speed of WAN port of router through ICMP, TCP and UDP. It keeps updated as to the working state and lines of the router and is helpful for remote management and maintenance of equipment.
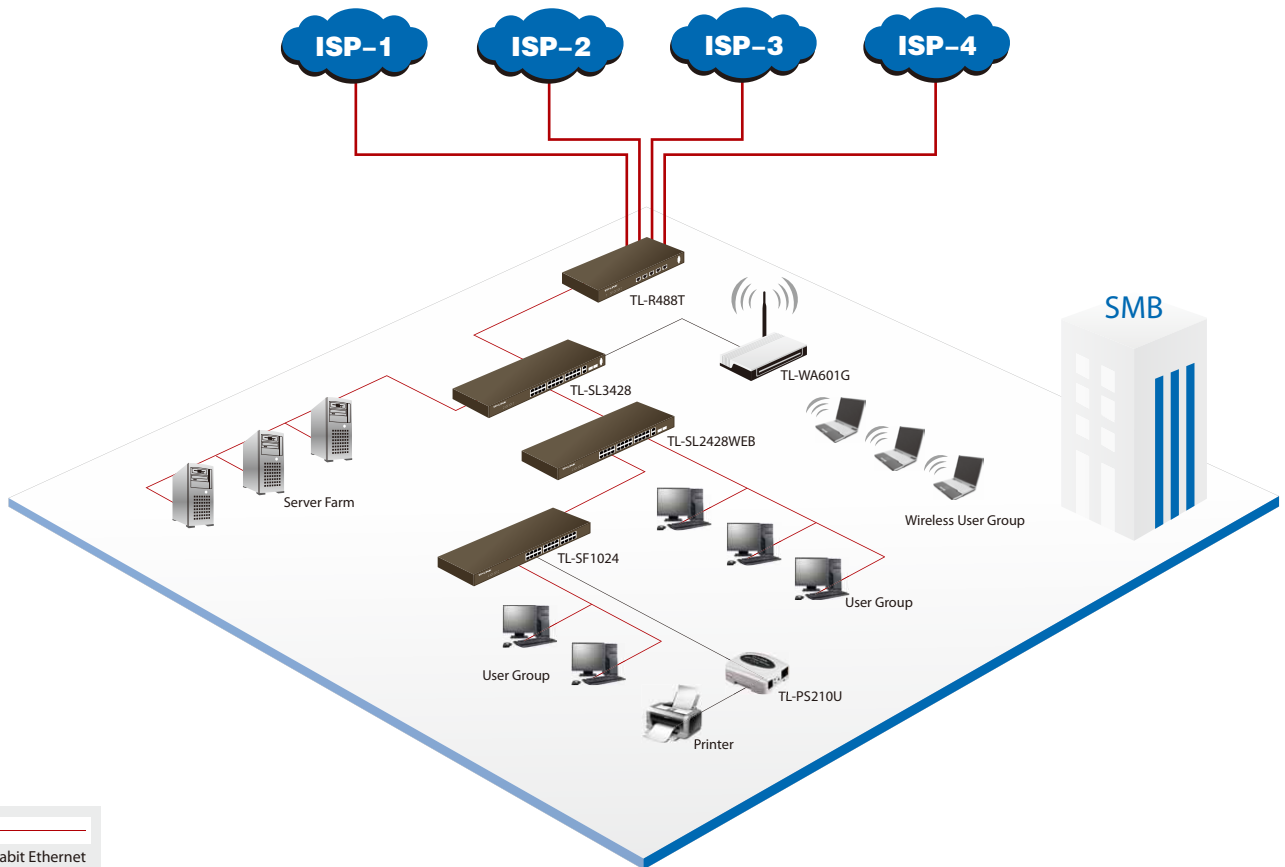
Features：

- Shares data and Internet access for Stations, connecting Internet through PPPoE on demand and disconnecting when idle
- Supports TCP/IP, PPPoE, DHCP, ICMP, NAT, SNTP
- Built-in DHCP server supporting static IP address distributing
- Built-in firewall supporting IP address filtering, Domain Name filtering, and MAC address filtering
- Supports Port Bandwidth Control, Port Mirror, Port-based VLAN for LAN ports
- Supports Virtual Server, Special Application, and DMZ host
- Supports UPnP, Dynamic DNS, Static Routing, VPN pass-through
- Supports connecting/disconnecting Internet on a specified time of day
- Supports access control based on time of day, parents and network administrators can establish restricted access policies for children or staffs
- Supports IP and MAC address binding
- Supports IP and Port based QoS settings
- Supports connection session control to restrict the abuse of bandwidth
- Supports Flow Statistics
- Supports ICMP-FLOOD, UDP-FLOOD, TCP-SYN-FLOOD filter
- Supports web-based firmware upgrade
- Supports Remote and Web based management
- Rack-mountable steel case

Specifications：

Product Specification			
Model	TL-R488T Quad-WAN Load Balance Broadband Router		
Solution	Intel IXP Network Processor, Multi-CPU distributed processing, main frequency up to 533MHz		
Ports	LAN	1 10/100M Auto-Negotiation RJ45 port (Auto MDI/MDIX)	
	WAN	4 10/100M Auto-Negotiation RJ45 ports (Auto MDI/MDIX)	
	1 Console (RS232 DB9 Male)		
Standards and Protocols	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DNS		
Basic Function	DHCP Client and Server		
	MAC Address Modify/Clone		
	VPN Pass-through		
	Static Routing		
	Dynamic DNS		
Port Settings	Port-based VLAN		
	Port Mirroring		
	Flow Statistics		
	LAN and WAN Port Setting		

Packet Control

QoS	IP and Port bandwidth control
	IP Connection Session Control
	Connection Session List
Forwarding Rules	Virtual Server
	Special Application
	DMZ Host
	UPnP

Security and Maintenance

Firewall Function	IP Address Filtering	
	MAC Address Filtering	
	Domain Name Filtering	
	IP/MAC Address Binding	
	DoS, Scan Protection	
	IP Packets Containing Options	
	Suspicious Package Detection	
System Function	Remote Management	
	System Log	
	Configuration File Uploading and Downloading	
	Web based Upgrade	
	HTTPS Configuration	
	Flow statistics	
Multi-WAN Function	WAN Load Balancing	Bandwidth Occupancy
		WAN IP Tracing
	WAN Bandwidth Percentage Display	
	LAN IP Statistics	
	Detecting Online	ICMP Detecting
		DNS Detecting
		TCP Connecting Test

Electrical & Emissions Summary

Power and Consumption	Input: 100-240VAC, 50/60Hz
	Consumption: 4.1W (Max)
Emissions	CE, FCC
Safety	RoHS

Physical Specifications

Dimensions (W*D*H)	11.6* 7.1*1.7 in.(294*180*44 mm)
Weight	2.4KG
Temperature	Operating: 0°C~40°C (32°F~104°F)
	Storage: -40°C~70°C (-40°F~158°F)
Humidity	Operating: 10%~90% non-condensing
	Storage: 5%~90% non-condensing

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Topology Diagram:

Legend

10/100M Ethernet	Gigabit Ethernet

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