# **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.

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### 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

Specificatio	ns:
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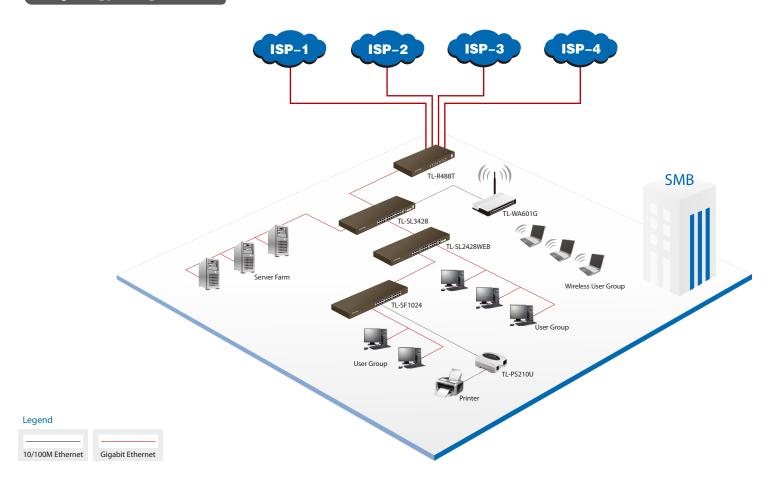
Product Specification			
Model	TL-R488T Quad-WAN Load Balance Broadband Router		
Solution	Intel IXP Network Processor, Multi-CPU distributed processing, main frequency up to 533MHz		
Ports	LAN 1 10/100M Auto-Negotiation RJ45 port (Auto MDI/MDIX)		
	WAN 4 10/100M Auto-Negotiation RJ45 ports (Auto MDI/MDIX)		
	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		

# **TP-LINK®**

Product Control     IP and Part bandwidth control       Op5     IP connection Session Control       Connection Session Control     Connection Session Control       Connection Session Control     Connection Session Control       Security and Maintenance     Special Application       Becurity and Maintenance     MAC Address Filtering       MAC Address Filtering     MAC Address Filtering       MAC Address Filtering     MAC Address Filtering       Domain Name Filtering     Domain Name Filtering       Dosi Name Filtering     Dosi Name Filtering       Dosi Name Filtering     Dosi Name Filtering       Dosi Scan Protection     Remote Management       System Function     Remote Management       System Function     Key based Upgrade       HTTP S Configuration File Uploading and Downloading     MAN Made Balancing     Bandwidth Occupancy       WAN Load Balancing     Mandwidth Percentage Display     MAN Practing       Multi-WAN Function     Input: 100-240/NC, 50/60/L     Consummercentage Display       Electrical & Emissions     CE, FCC     Safety     Mandwidth Percentage Display       Electrical Specifications     Input: 100-240/NC, 50/60/L     Opercen	Packet Control				
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Connection Session List       Virtual Server       Special Application       DM2 Host       UPnP       Security and Maintenance       IP Address Filtering       MAC Address Filtering       Domain Name Filtering       Domain Name Filtering       Domain Name Filtering       Domain Name Filtering       Dos, Scan Protection       IP PACKets Containing Options       Suspicious Package Detection       Remote Management       System Function       Veb based Upgrade       Multi-WAN Function       Value Management       System Lag       Configuration File Uploading and Downloading       WAN Load Balancing       WAN Load Balancing       WAN Mandwidth Percentage Display       LAN IP Statistics       ICMP Detecting       Detecting Online       Input: 100-240VAC, S0AOPIz       Consumption: 4.1W (Max)       Emissions       CE, E/CC       Safety       Physical Specifications       UP exating: 0°C-40°C (32°T-104°T)       Dimenestions (M*D*H)       <	QoS				
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DoS, Scan Protection     IP Packets Containing Options     Suspicious Package Detection     Remote Management     System Function     Configuration File Uploading and Downloading     Web based Upgrade     HTTPS Configuration     Flow statistics     WAN Load Balancing     WAN Load Balancing     WAN Bandwidth Percentage Display     LAN IP Statistics     Detecting Online     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     Operating: 0°C-40°C (42°F-18°F)     Goperating: 10%-90% non-condensing	Firewall Function				
IP Packets Containing Options     Suspicious Package Detection     Suspicious Package Detection     Remote Management     System Log     Configuration File Uploading and Downloading     Web based Upgrade     HTTPS Configuration     Flow statistics     WAN Load Balancing     WAN Load Balancing     WAN Pracing     WAN Bandwidth Percentage Display     LAN IP Statistics     Detecting Online     Detecting Online     Detecting Online     IPUSICAL SCONSUMPTION - 1.10° 240VAC, S0/60HZ     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)     Dimensions (W*D*H)   11.6° 7.1*1.7 in.(294*180*44 mm)     Weight   2.4KG     Operating: 0°C-40°C (32°F-104*F)     Storage: 40°C-70°C (-40°F-158*F)     Mutidity   Operating: 0%-90% non-condensing					
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System Function     System Log       Configuration File Uploading and Downloading       Web based Upgrade       HTTPS Configuration       Flow statistics       Bandwidth Occupancy       WAN Load Balancing     Bandwidth Occupancy       WAN Bandwidth Percentage Display       WAN Bandwidth Percentage Display       LAN IP Statistics       Detecting Online     ICMP Detecting       DNS Detecting       TCP Connecting Test       Electrical & Emissions     Input: 100-240VAC, 50/60Hz       Consumption: 4.1W (Max)       Emissions     CE, FCC       Safety     RoHS       Physical Specifications     CE, FCC       Safety     RoHS       Physical Specifications     0perating: 0°C-40°C (32°F~104°F)       Generature     Operating: 0°C-40°C (40°F~158°F)       Munidity     Operating: 10%-90% non-condensing					
System Function   Configuration File Uploading and Downloading     Web based Upgrade   HTTPS Configuration     Flow statistics   Bandwidth Occupancy     WAN Load Balancing   WAN IP Tracing     WAN Bandwidth Percentage Display   WAN IP Tracing     Multi-WAN Function   ICMP Detecting     Detecting Online   ICMP Detecting     Detecting Online   ICMP Detecting     Detecting Online   ICMP Detecting     DNS Detecting   TCP Connecting Test     Electrical & Emissions   Input: 100-240VAC, 50/60Hz     Consumption   4.1W (Max)     Emissions   CE, FCC     Safety   RoHS     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)     Operating: 10%~90% non-condensing					
System Function   Web based Upgrade     HTTPS Configuration     Flow statistics     WAN Load Balancing   Bandwidth Occupancy     WAN Load Balancing   WAN IP Tracing     WAN Bandwidth Percentage Display   MAN IP Tracing     Multi-WAN Function   LAN IP Statistics     Detecting Online   ICMP Detecting     Detecting Online   DNS Detecting     Power and Consumption   Input: 100-240VAC, 50/60Hz     Consumption: 4.1W (Max)   Consumption: 4.1W (Max)     Emissions   CE, FCC     Safety   R5     Physical Specifications   Unit: 10:420VAC, 50/60Hz     Weight   2.4KG     Operating: 0°C-40°C (32°F-104°F)     Storage: -40°C-70°C (-40°F-158°F)     Operating: 10%~90% non-condensing	-				
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Multi-WAN Function     WAN Bandwidth Percentage Display       Multi-WAN Function     LAN IP Statistics       ICMP Detecting     Detecting       Detecting Online     ICMP Detecting       TCP Connecting Test     TCP Connecting Test       Electrical & Emissions     Input: 100-240VAC, 50/60Hz       Consumption     Input: 100-240VAC, 50/60Hz       Consumption: 4.1W (Max)     Consumption: 4.1W (Max)       Emissions     CE, FCC       Safety     RoHS       Physical Specifications     Information: 0°C~40°C (32°F~104°F)       Meight     2.4KG       Operating: 0°C~40°C (32°F~104°F)       Storage: 40°C~70°C (-40°F~158°F)       Operating: 10%~90% non-condensing					
Multi-WAN Function     WAN Bandwidth Percentage Display       LAN IP Statistics     ICMP Detecting       Detecting Online     ICMP Detecting       Detecting Online     ICP Connecting Test       Felectrical & Emissions Summary       Power and Consumption     Input: 100-240VAC, 50/60Hz       Consumption: 4.1W (Max)     Consumption: 4.1W (Max)       Emissions     CE, FCC       Safety     RoHS       Physical Specifications     Information: 294*180*44 mm)       Weight     2.4KG       Operating: 0°C~40°C (32°F~104°F)       Storage: -40°C~70°C (-40°F~158°F)       Operating: 10%~90% non-condensing		WAN Load Balancing			
Multi-WAN Function     LAN IP Statistics       Detecting Online     ICMP Detecting       DNS Detecting     DNS Detecting       TCP Connecting Test     TCP Connecting Test       Electrical & Emissions     Input: 100-240VAC, 50/60Hz       Consumption     Input: 100-240VAC, 50/60Hz       Consumption: 4.1W (Max)     Consumption: 4.1W (Max)       Emissions     CE, FCC       Safety     RoHS       Physical Specifications     V       Dimensions (W*D*H)     11.6* 7.1*1.7 in.(294*180*44 mm)       Weight     2.4KG       Operating: 0°C-40°C (32°F~104°F)       Storage: -40°C-70°C (-40°F-158°F)       Operating: 10%~90% non-condensing	_		-		
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Detecting Online     DNS Detecting TCP Connecting Test       Electrical & Emissions     Input: 100-240VAC, 50/60Hz       Power and Consumption     Input: 100-240VAC, 50/60Hz       Consumption: 4.1W (Max)     Consumption: 4.1W (Max)       Emissions     CE, FCC       Safety     RoHS       Physical Specifications     CE, FCC       Dimensions (W*D*H)     11.6* 7.1*1.7 in.(294*180*44 mm)       Weight     2.4KG       Operating: 0°C~40°C (32°F~104°F)       Storage: -40°C~70°C (-40°F~158°F)       Operating: 10%~90% non-condensing	Multi-WAN Function	LAN IP Statistics	LAN IP Statistics		
TCP Connecting Test     TCP Connecting Test     Electrical & Emissions   Input: 100-240VAC, 50/60Hz     Power and Consumption   Input: 100-240VAC, 50/60Hz   Consumption: 4.1W (Max)     Emissions   CE, FCC   RoHS     Safety   RoHS   RoHS     Dimensions (W*D*H)   11.6* 7.1*1.7 in.(294*180*44 mm)   Question     Weight   2.4KG   Operating: 0°C~40°C (32°F~104°F)     Temperature   Operating: 0°C~40°C (-40°F~158°F)   Operating: 10%~90% non-condensing					
Electrical & Emissions SummaryInput: 100-240VAC, 50/60HzPower and ConsumptionInput: 100-240VAC, 50/60HzConsumption: 4.1W (Max)Consumption: 4.1W (Max)EmissionsCE, FCCSafetyRoHSPhysical SpecificationsI.1.6* 7.1*1.7 in.(294*180*44 mm)Dimensions (W*D*H)11.6* 7.1*1.7 in.(294*180*44 mm)Weight2.4KGOperating: 0°C~40°C (32°F~104°F)Storage: -40°C~70°C (-40°F~158°F)Operating: 10%~90% non-condensing		Detecting Online			
Power and ConsumptionInput: 100-240VAC, 50/60HzConsumption: 4.1W (Max)EmissionsCE, FCCSafetyRoHSPhysical SpecificationsDimensions (W*D*H)11.6* 7.1*1.7 in.(294*180*44 mm)2.4KGOperating: 0°C~40°C (32°F~104°F)TemperatureOperating: 0°C~40°C (32°F~104°F)HumidityOperating: 10%~90% non-condensing			TCP Connecting Test		
Power and ConsumptionConsumption: 4.1W (Max)EmissionsCE, FCCSafetyRoHSPhysical SpecificationsDimensions (W*D*H)11.6* 7.1*1.7 in.(294*180*44 mm)Weight2.4KGTemperatureOperating: 0°C~40°C (32°F~104°F)Storage: -40°C~70°C (-40°F~158°F)Operating: 10%~90% non-condensing	Electrical & Emissions Su				
EmissionsCE, FCCSafetyRoHSPhysical SpecificationsDimensions (W*D*H)11.6* 7.1*1.7 in.(294*180*44 mm)Weight2.4KGTemperatureOperating: 0°C~40°C (32°F~104°F)Storage: -40°C ~70°C (-40°F~158°F)HumidityOperating: 10%~90% non-condensing	Power and Consumption				
SafetyRoHSPhysical SpecificationsDimensions (W*D*H)11.6* 7.1*1.7 in.(294*180*44 mm)Weight2.4KGTemperatureOperating: 0°C~40°C (32°F~104°F)Storage: -40°C~70°C (-40°F~158°F)HumidityOperating: 10%~90% non-condensing					
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					
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)       Operating: 10%~90% non-condensing		RoHS			
Weight 2.4KG   Temperature Operating: 0°C~40°C (32°F~104°F)   Storage: -40°C~70°C (-40°F~158°F)   Operating: 10%~90% non-condensing					
Deperating: 0°C~40°C (32°F~104°F)     Storage: -40°C~70°C (-40°F~158°F)     Operating: 10%~90% non-condensing					
Imperature Storage: -40°C~70°C (-40°F~158°F)   Humidity Operating: 10%~90% non-condensing	Weight				
Storage: -40°C~70°C (-40°F~158°F)     Humidity     Operating: 10%~90% non-condensing	Temperature				
Humidity		-			
Storage: 5%~90% non-condensing	Humidity				
		Storage: 5%~90% non-condensing			

## **TP-LINK<sup>®</sup>**

Topology Diagram:



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