



# Gigabit Load Balance Broadband Router

MODEL: TL-ER5120



## Highlights

- 64-bit dedicated processor and 2 Gbit DDRIII high-speed memory for outstanding performance
- Equipped with 1 Gigabit WAN port, 1 Gigabit LAN port and 3 adaptable Gigabit WAN/LAN ports
- 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
- Professional 4KV lightning protection keeps your investment safe

## Overview

The TL-ER5120 Gigabit Load Balance Broadband Router from TP-Link possesses exceptional data processing capabilities and a rich array of features including Load Balance, Access Control, DoS Defense, Bandwidth Control, and Session Limit. Suitable for small and medium-sized enterprises, the router can deliver high-speed connections to a large volume of client devices as part of a secure and easy-to-manage network.

## Superior Hardware

With a 64-bit network processor and 2Gbit DDRIII memory, TL-ER5120 is able to handle multiple tasks simultaneously while staying reliable and fast.

## Intelligent Bandwidth Allocation

The TL-ER5120 features three freely interchangeable 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. Intelligent Load Balancing can distribute data streams according to the bandwidth proportion of each WAN port to make full use of multi-line broadband. With IP-based Bandwidth Control and Session Limit functions, network administrators can flexibly manage network bandwidth to optimize usage.

## Abundant Security Features

For defense against external threats, TL-ER5120 features automatic protection to detect and block Denial of Service (DoS) attacks such as TCP/UDP/ICMP Flooding, TCP Scanning, Ping of Death and other related threats. For better management of the internal network, TL-ER5120 allows administrators to set rules to block specific websites and limit staff access to specific services such as FTP, HTTP and SMTP. Captive Portal provides a convenient and secure method for guest authentication.

## Peace of Mind Whatever the Weather

Professional-standard lightning protection prevents electrical surges from penetrating your network equipment. Designed to withstand 4KV of electricity when well-grounded, this router ensures your network investments remain as safe as possible.

# Specifications

## HardWare

Standards and Protocols	IEEE 802.3, IEEE802.3u, IEEE802.3ab TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DNS, PPTP, L2TP
Interface	1 Gigabit WAN port 3 Gigabit LAN/WAN ports 1 Gigabit LAN port
Network Media	10BASE-T: UTP category 3, 4, 5 cable (Max 100m) EIA/TIA-568 100Ω STP (Max 100m) 100BASE-TX: UTP category 5, 5e cable (Max 100m) EIA/TIA-568 100Ω STP (Max 100m) 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m)
Button	Reset Button
Power Supply	Internal Universal Power Supply AC100-240V~ 50/60Hz Input
Flash	32MB
DRAM	DDRIII 256MB
LED	PWR, SYS, Link/Act, Speed, WAN
Dimensions (W x D x H)	17.3x7.1x1.7 in.(440x180x44 mm)

## Performance

Concurrent Session	150000
NAT(iMIX)	703Mbps
NAT(DHCP)	934Mbps
NAT(PPPoE)	868Mbps

## Basic Functions

WAN Connection Type	Static/Dynamic IP, PPPoE/Russian PPPoE, PPTP/Russian PPTP, L2TP/Russian L2TP, Bigpond Cable
DHCP	DHCP Server/Client 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 Link Backup (Timing, Failover) Online Detection
NAT	One-to-One NAT, Multi-nets NAT, Virtual Server, Port Triggering FTP/H.323/SIP/IPsec/PPTP ALG, UPnP
Routing	Static Routing Policy Routing
Session Limit	IP-based Session Limit
Bandwidth Control	IP-based Bandwidth Control

## Security

Attack Defense	TCP/UDP/ICMP Flood Defense Block TCP Scan (Stealth FIN/Xmas/Null) Block Ping from WAN
Filtering	MAC Filtering URL/Keywords Filtering
ARP Inspection	Sending GARP Packets ARP Scanning by WAN/LAN IP-MAC Binding
Access Control	Source/Destination IP Based Access Control

## Authentication

### Web Authentication

Local User Authentication,  
Radius Sever Authentication,  
Onekey Online

## Management

### Service

Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe)

### Maintenance

Web Management Interface, Remote Management  
Export & Import Configuration, SNMP  
Diagnostics (Ping & Traceroute), NTP Synchronize  
Syslog Support

## Others

### Certification

CE, FCC, RoHS

### Package Contents

TL-ER5120, Power Cord, Rack-mount Kit, Installation Guide

### System Requirements

Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7/8/8.1/10  
MAC OS, NetWare, UNIX or Linux

### Environment

Operating Temperature: 0°C to 40°C (32°F to 104°F)  
Storage Temperature: -40°C to 70°C (-40°F to 158°F)  
Operating Humidity: 10% to 90% non-condensing  
Storage Humidity: 5% to 90% non-condensing

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