



# TP-LINK

## Gigabit Load Balance Broadband Router

TL-ER5120

### ▣ Highlights

- 1 fixed gigabit WAN port, 1 fixed gigabit LAN/DMZ port and 3 free changeable gigabit WAN/LAN ports
- Abundant security features including ARP Inspection, DoS Defense, URL/Keyword Domain Filter and Access Control
- Deploys One-Click restriction of IM/P2P applications to manage staff online behavior
- Supports PPPoE Server for the better management of internal network
- Load Balancing, automatically selects the best line according to the load
- Professional 4kV lightning protection keeps your investments as safe as possible

**Security**

- Hardware DMZ port
- One-to-One NAT
- FTP/H.323/SIP/IPsec/PPTP ALG
- IM/P2P Application Blocking  
URL/Keywords Filtering
- Web Content Filtering (Java, ActiveX, Cookies)
- ARP Inspection
- DoS/DDoS Defense

**Load Balance**

- Intelligent Load Balance
- Policy Routing
- Link Backup (Timing, Failover)

**Traffic Control**

- IP-based Bandwidth Control
- Guarantee & Limited Bandwidth
- IP-based Session Limit

**Others**

- Port VLAN, Port Mirror
- Static Routing, RIP v1/v2
- PPPoE Server
- E-Bulletin



- Details: <http://www.tp-link.com/en/Support/>
- German/Austrian/Swiss users are not included



## TP-LINK Gigabit Load Balance Broadband Router

### TL-ER5120

The TL-ER5120 Gigabit Load Balance Broadband Router from TP-LINK possesses excellent data processing capabilities and multiple powerful functions including Load Balance, Access Control, IM/P2P Blocking, DoS Defense, Bandwidth Control, Session Limit, PPPoE Server and so on, which consumedly meet the needs of small and medium enterprises, hotels and communities with large volumes of users demanding an efficient and easy-to-manage network with high security.

### Abundant Security Features

For defense against external threats, TL-ER5120 features an 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. Moreover, this router offers a hardware DMZ port, which allows you to setup public servers without exposing your internal network, to avoid attacks from external threats. For better management of the internal network, TL-ER5120 allows administrators to set rules to block specific web sites and IM/P2P applications with just one-click, and restrict staff to use specific services such as FTP, HTTP and SMTP.

### Better Reasonable Management

By setting PPPoE Server to allocate PPPoE account to the private network users, the router only allows the users with legal account and passed the authentication to access the Internet via. Cooperating with IP-based Bandwidth Control, it is capable to confine the bandwidth usage of certain PPPoE account. Moreover, the E-Bulletin function is able to release bulletin in the form of webpage to certain user groups periodically, which notifies the users about the expiration date of the PPPoE account. With the above features, the router will prioritize different users in surfer jurisdiction for a better reasonable management.

### Optimizing Bandwidth Usage

The TL-ER5120 features three free 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 Intelligent Load Balancing function can distribute data streams according to the bandwidth proportion of every WAN port to raise the utilization rate of multi-line broadband. With IP-based Bandwidth Control and Session Limit functions, network administrators can flexibly manage network bandwidth to optimize bandwidth usage.

### Safety Minded Enterprise Investments

Professional lightning protection technology is designed to prevent electrical surges from penetrating the interior of the electrical equipment and is discharged harmlessly into the Earth. This router is designed to prevent lightning 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 situations.

## Specifications

### Hardware Features

- Standards and Protocols: IEEE 802.3, 802.3u, 802.3ab, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNMP, HTTP, DNS
- Network Media: 10BASE-T: UTP category 3, 4, 5 cable (Max 100m), 100BASE-TX: UTP category 5, 5e cable(Max 100m), 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100m)
- Interface: 1 Fixed 10/100/1000Mbps WAN Port, 3 Free Changeable 10/100/1000Mbps WAN/LAN Ports, 1 Fixed 10/100/1000Mbps LAN/DMZ Port, 1 Console Port (RJ-45 On RS232)
- Flash/DRAM: 8MB/128MB (DDRII)
- LEDs: PWR, SYS, Link/Act, Speed, WAN, DMZ
- Dimensions: 17.3 x 8.7 x 1.7 in. (440 x 220 x 44 mm), 19-inch Standard Rack-Mount Width, 1U Height
- Power Supply: Internal Universal Power Supply, AC100-240V~ 50/60Hz Input

### Performance

- Concurrent Session: 120000
- NAT Throughput: 350Mbps

### Basic Functions

- WAN Connection Type: Dynamic IP, Static IP, PPPoE, PPTP, L2TP, Dual Access, BigPond
- MAC Clone: Modify WAN/LAN/DMZ MAC Address
- DHCP: DHCP Server/Client, DHCP Reservation
- Switch Setting: Port Mirror, Rate Control, Port Configuration, Port VLAN

### Advanced Functions

- System Mode: NAT, Non-NAT, Classical Routing
- NAT: One-to-One NAT, Multi-nets NAT, Virtual Server, DMZ Host, Port Triggering, UPnP, FTP/H.323/SIP/IPsec/PPTP ALG
- Traffic Control: IP-based Bandwidth Control, Guarantee & Limited Bandwidth, Time-scheduled Policy, IP-based Session Limit

- Load Balance: Intelligent Load Balance, Policy Routing, Protocol Binding, Link Backup (Timing, Failover), Online Detection
- Routing: Static Routing, Dynamic Routing (RIP v1/v2)

### Firewall

- DMZ Port: 1 Hardware DMZ Port
- Application Control: IM, P2P, Web IM, Web SNS, Web Media, Protocol, Proxy Blocking
- Filtering: MAC Filtering, URL/Keywords Filtering, Web Content Filtering (Java, ActiveX, Cookies)
- ARP Inspection: Sending GARP Packets, ARP Scanning by WAN/LAN, IP-MAC Binding
- Attack Defense: TCP/UDP/ICMP Flood Defense, Block TCP Scan (Stealth FIN/Xmas/Null), Block Ping from WAN

### Management

- Service: PPPoE Server, E-Bulletin, Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe)
- Maintenance: Web/CLI/Telnet Management Interface, Remote Management, Export & Import Configuration, NTP Synchronize, Syslog Support

### Others

- Certification: CE, FCC, RoHS
- Package Contents: TL-ER5120, Resource CD, Power Cord, Rack-mount Kit, Installation Guide
- System Requirement: Microsoft® Windows 8/7/Vista/XP/2000, MAC® OS, NetWare®, UNIX® or Linux
- Environment:
  - Operating Temperature: 0°C~40°C (32°F~104°F),
  - Storage Temperature: -40°C~70°C (-40°F~158°F),
  - Operating Humidity: 10%~90% non-condensing,
  - Storage Humidity: 5%~90% non-condensing

## Ordering Information

Product Model	Description
TL-ER5120	Gigabit Load Balance Broadband Router