



# SafeStream Gigabit Multi-WAN VPN Router

MODEL: TL-ER6120



## Highlights

- 64-bit dedicated processor and 512MB DDRIII high-speed memory for outstanding performance
- Equipped with 1 Gigabit WAN port, 3 Gigabit WAN/LAN ports and 1 Gigabit LAN port
- Supports multiple VPN protocols including IPsec/PPTP/L2TP, helping users to establish VPN connections more flexibly
- Supports up to 100 IPsec VPN tunnels with a hardware-based VPN engine
- Captive portal provides a convenient method for guest authentication
- Abundant features including load balance, bandwidth control and access control
- Professional 4KV lightning protection keeps your investments as safe as possible

## Overview

The TL-ER6120 SafeStream Gigabit Multi-WAN VPN Router from TP-Link boasts excellent data processing capabilities and an array of powerful functions, including IPsec/PPTP/L2TP VPN, Load Balance, Access Control, DoS Defense and Bandwidth Control. The TL-ER6120 is ideal for small and medium businesses, along with hotels and other settings where a large number of users require a stable, secure connection.

## Enterprise-Standard VPN

The TL-ER6120 supports pass-through traffic together with multiple VPN protocols including IPsec, PPTP and L2TP in Client/Server mode. It also features built-in VPN engine hardware, allowing the router to support and manage up to 100 LAN-to-LAN/Client-to-LAN IPsec VPN connections. Advanced VPN features include DES/3DES/AES128/AES192/AES256 encryption, MD5/SHA1 authentication, and Main/Aggressive negotiation modes.

## Superior Hardware

With a 64-bit network processor and 512MB DDR3 memory, TL-ER6120 is able to handle multiple tasks while maintaining excellent performance and greater reliability.

## Intelligent Bandwidth Allocation

The TL-ER6120 features 1 WAN port and 3 WAN/LAN ports, allowing one device to meet multiple requirements. Intelligent Load Balancing distributes data streams according to the bandwidth proportion of each WAN port to make the most of multi-line broadband. IP-based Bandwidth Control and Session Limit functions give network administrators the power to flexibly manage how their bandwidth is used.

## Peace of Mind Whatever the Weather

Professional-standard lightning protection prevents electrical surges from penetrating your network equipment, instead discharging them harmlessly into the Earth. Designed to withstand 4KV of electricity when well-grounded, this router ensures your network investments remain as safe as possible from the wrath of Mother Nature.

# Specifications

## HardWare

Standards and Protocols	IEEE 802.3, IEEE802.3u, IEEE802.3ab TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP, HTTP, DNS, IPsec, 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 512MB
LED	PWR, SYS, Link/Act, Speed
Dimensions ( W x D x H )	17.3x7.1x1.7 in.(440x180x44 mm)

## Performance

Concurrent Session	150000
NAT (iMIX)	936Mbps
NAT (DHCP)	878Mbps
NAT (PPPoE)	665Mbps
IPsec VPN Throughput (AES256)	373Mbps

## 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

## VPN

IPsec VPN	100 IPsec VPN Tunnels LAN-to-LAN, Client-to-LAN Main, Aggressive Negotiation Mode DES, 3DES, AES128, AES192, AES256 Encryption Algorithm MD5, SHA1 Authentication Algorithm IPsec NAT Traversal (NAT-T) Dead Peer Detection (DPD) Perfect Forward Secrecy (PFS)
PPTP VPN	50 PPTP VPN Tunnels PPTP VPN Server/Client PPTP with MPPE Encryption
L2TP VPN	50 L2TP VPN Tunnels L2TP VPN Server/Client L2TP over IPsec
VPN Pass-through	IPsec (ESP), PPTP, L2TP

## 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-ER6120, 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°Cto 40°C (32°F to 104°F) Storage Temperature: -40°Cto 70°C (-40°F to 158°F) Operating Humidity: 10% to 90% non-condensing Storage Humidity: 5% to 90% non-condensing