

TP-Link TL-R470T+

TP-Link TL-R470T+ Load Balance Broadband Router User Manual

Model: TL-R470T+

1. INTRODUCTION

The TP-Link TL-R470T+ Load Balance Broadband Router is designed for small office and net cafe environments, offering robust network management and enhanced internet connectivity. This device integrates multiple WAN ports, allowing for efficient load balancing and failover capabilities to ensure continuous internet access and optimized bandwidth utilization. This manual provides detailed instructions for setting up, operating, and maintaining your router.

2. KEY FEATURES

- **Flexible Port Configuration:** Equipped with one fixed Gigabit WAN port, one fixed Gigabit LAN/DMZ port, and three freely interchangeable Gigabit WAN/LAN ports, providing versatile connectivity options.
- **Automatic Load Balancing:** Intelligently distributes network traffic across multiple WAN connections to optimize bandwidth and ensure efficient data transfer.
- **PPPoE Server Support:** Facilitates better management of internal networks and enables the provision of ISP services.
- **Captive Portal:** Offers a convenient guest authentication method, ideal for public access networks.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- TP-Link TL-R470T+ Load Balance Broadband Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

4. HARDWARE OVERVIEW

4.1 Front Panel

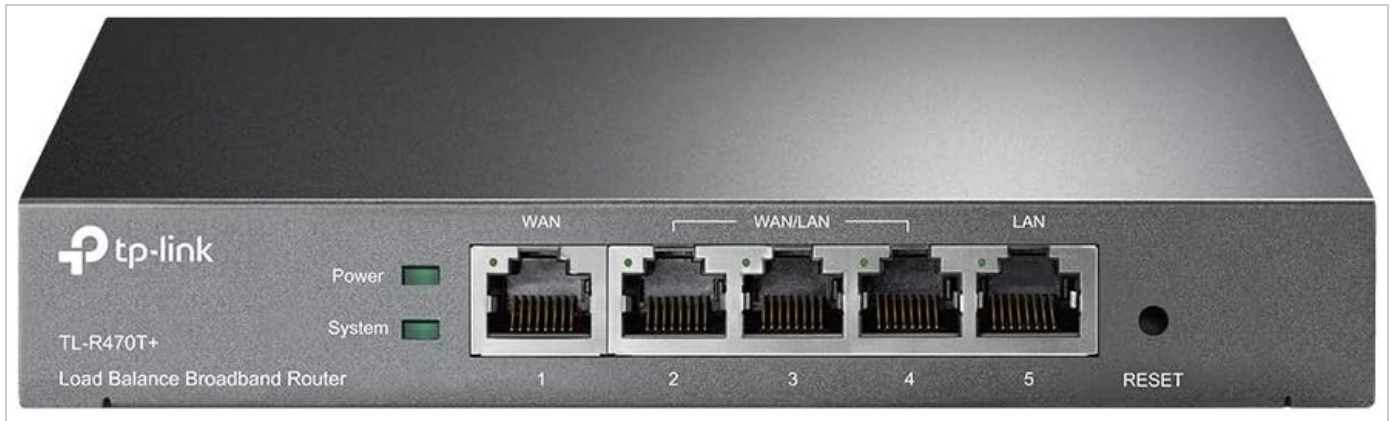


Figure 4.1: Front view of the TL-R470T+ router. This image displays the front panel of the router, featuring the TP-Link logo, model number TL-R470T+, and "Load Balance Broadband Router" text. On the left, there are two LED indicators: "Power" and "System". To the right, five Gigabit Ethernet ports are visible, labeled 1 through 5. Port 1 is a fixed WAN port, Port 5 is a fixed LAN/DMZ port, and Ports 2, 3, and 4 are interchangeable WAN/LAN ports. A small reset button is also present on the far right.

- **Power LED:** Indicates the power status of the device.
- **System LED:** Indicates the system status. Blinking indicates normal operation.
- **WAN Port (Port 1):** Fixed Gigabit WAN port for connecting to your primary internet service provider.
- **WAN/LAN Ports (Ports 2, 3, 4):** Three interchangeable Gigabit ports that can be configured as either WAN or LAN ports.
- **LAN/DMZ Port (Port 5):** Fixed Gigabit LAN or DMZ port for connecting to your local network or a DMZ host.
- **Reset Button:** Used to restore the router to its factory default settings. Press and hold for approximately 5-8 seconds while the router is powered on.

4.2 Rear Panel



Figure 4.2: Rear view of the TL-R470T+ router. This image shows the back panel of the router. On the left, there is a Kensington lock slot for security. On the right, the power input port is visible, labeled with "9V == 0.6A", indicating the required power specifications.

- **Power Input:** Connect the provided power adapter here.
- **Kensington Lock Slot:** For securing the device with a compatible lock.

5. SETUP INSTRUCTIONS

Follow these steps to set up your TP-Link TL-R470T+ router:

1. **Power Off Devices:** Disconnect power from your modem and any existing routers.
2. **Connect WAN:** Connect your modem's Ethernet cable to the **WAN port (Port 1)** on the TL-R470T+. If you have multiple internet connections, connect additional modems to Ports 2, 3, or 4, configuring them as WAN ports later in the software.

- 3. **Connect LAN:** Connect a computer or a network switch to one of the **LAN ports (e.g., Port 5)** using an Ethernet cable.
- 4. **Power On:** First, power on your modem(s), then power on the TL-R470T+ router by connecting the power adapter. Wait for the Power and System LEDs to stabilize.
- 5. **Access Management Interface:** Open a web browser on the connected computer and enter the default IP address (usually [192.168.0.1](#) or [192.168.1.1](#)) in the address bar. Refer to the Quick Installation Guide for the exact default IP and login credentials.
- 6. **Initial Configuration:** Follow the on-screen wizard to configure your WAN connections, set up load balancing rules, and secure your network.

Note: For detailed configuration of advanced features like load balancing algorithms, PPPoE server, or captive portal, refer to the comprehensive user guide available on the TP-Link support website.

6. OPERATING INSTRUCTIONS

The TL-R470T+ router is designed for continuous operation. Once configured, it will automatically manage your internet connections based on the settings you've applied.

- **Load Balancing:** The router automatically distributes internet traffic across active WAN links to maximize throughput and minimize latency. You can customize load balancing policies through the web management interface.
- **WAN Failover:** In case one WAN link fails, the router automatically redirects traffic to the remaining active links, ensuring uninterrupted internet access.
- **Bandwidth Control:** Manage bandwidth allocation for specific users or applications to ensure fair usage and prioritize critical services.
- **Access Control:** Implement rules to restrict internet access based on time, IP address, or domain.
- **PPPoE Server:** If configured, this feature allows you to manage user accounts and provide internet access within your local network.
- **Captive Portal:** For guest networks, the captive portal requires users to authenticate before gaining internet access, often used in cafes or public spaces.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your router.

- **Firmware Updates:** Periodically check the TP-Link website for firmware updates. Updating firmware can improve performance, add new features, and fix security vulnerabilities.
- **Regular Reboot:** Rebooting the router occasionally (e.g., once a month) can help clear temporary issues and refresh its performance.
- **Physical Cleaning:** Keep the router in a clean, dust-free environment. Ensure ventilation holes are not obstructed to prevent overheating.
- **Backup Configuration:** Regularly back up your router's configuration settings through the web management interface. This allows for quick restoration in case of a reset or malfunction.

8. TROUBLESHOOTING

Problem	Solution
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Problem	Solution
Cannot access the internet.	<ul style="list-style-type: none"> • Check if your modem is working correctly. • Verify that the WAN cable is securely connected to Port 1 (or other configured WAN ports). • Ensure your WAN settings (IP address, DNS) are correctly configured in the router's interface. • Reboot the modem and then the router.
Cannot access the router's web management interface.	<ul style="list-style-type: none"> • Ensure your computer is connected to a LAN port of the router. • Verify your computer's IP settings are set to obtain an IP address automatically (DHCP). • Try clearing your browser's cache or using a different browser. • Confirm you are using the correct default IP address (e.g., 192.168.0.1).
Slow internet speed.	<ul style="list-style-type: none"> • Check your internet service provider's speed. • Review your load balancing settings to ensure optimal distribution. • Check for any bandwidth control rules that might be limiting speed. • Ensure no applications are consuming excessive bandwidth.
Router frequently reboots or loses connection.	<ul style="list-style-type: none"> • Ensure the power adapter is securely connected and is the correct voltage/amperage. • Check for overheating; ensure proper ventilation. • Consider updating the firmware to the latest version. • If issues persist, perform a factory reset and reconfigure.

9. SPECIFICATIONS

Feature	Detail
Brand	TP-Link
Model	TL-R470T+
Dimensions (L x W x H)	10.6 x 15.8 x 2.6 cm
Item Weight	650 g
Ports	1 Fixed Gigabit WAN, 1 Fixed Gigabit LAN/DMZ, 3 Interchangeable Gigabit WAN/LAN
Connectivity Technology	Ethernet
Wireless Type	801.11ac (Note: This router is wired, but the specification mentions 801.11ac. This might be a generic spec or refer to compatibility with wireless networks it connects to. The device itself is a wired router.)

Feature	Detail
Voltage	110 Volts, 220 Volts (via external power adapter)
Wattage	1.56 watts
Operating System	TP-Link firmware
Compatible Devices	Laptop, Personal Computer, Smart Television, Tablet

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official TP-Link website or contact their customer service. Warranty terms and conditions may vary by region and purchase date.
TP-Link Official Website: www.tp-link.com

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question