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TP-Link Archer GE800

TP-Link Archer GE800 WiFi 7 Gaming Router User Manual

Model: Archer GE800 | BE19000 Tri-Band

1. Introduction

This manual provides detailed instructions for setting up, operating, and maintaining your TP-Link Archer GE800 WiFi 7 Gaming Router. The Archer GE800 is designed to deliver ultra-fast, low-latency network performance for an optimal gaming experience, leveraging the latest Wi-Fi 7 technology.



Figure 1.1: Front view of the TP-Link Archer GE800 WiFi 7 Gaming Router.

The Archer GE800 features Tri-Band Wi-Fi 7 with speeds up to 19 Gbps, multiple 10 Gbps and 2.5 Gbps ports, dedicated gaming acceleration, and advanced security features to ensure a stable and secure network for all your devices.

2. Package Contents

Please check the package carefully for the following items. If any item is missing or damaged, please contact your retailer.

- TP-Link Archer GE800 WiFi 7 Gaming Router
- Power Adapter
- Quick Installation Guide



Figure 2.1: Archer GE800 product packaging.

3. Setup Guide

3.1 Router Placement

Place the router in a central location in your home, away from obstructions and devices that may cause interference (e.g., cordless phones, microwave ovens). For optimal Wi-Fi coverage, place it on an elevated surface.

3.2 Hardware Connection

1. **Power Off:** Disconnect the power from your modem (if applicable).
2. **Connect Modem:** Connect one end of an Ethernet cable to your modem's LAN port and the other end to one of the 10 Gbps WAN/LAN ports on your Archer GE800 router.
3. **Power On:** Connect the power adapter to the router's power port and plug it into a power outlet. Wait for the router to fully boot up (approximately 1-2 minutes).
4. **Connect Devices:** You can connect your wired devices (gaming consoles, PCs) to the 2.5 Gbps LAN ports or the remaining 10 Gbps LAN ports using Ethernet cables.



Figure 3.1: Rear panel of Archer GE800 showing power, USB, and Ethernet ports.



Figure 3.2: Detailed view of the 2.5 Gbps LAN ports and 10 Gbps WAN/LAN ports.

3.3 Internet Connection Compatibility

The Archer GE800 is designed for Fiber (FTTH) connections. It requires an optical fiber outlet and a WAN converter to connect to the router's RJ45 WAN port. This router does **not** support xDSL/FTTC/FTTS connections (Fiber-Copper or Copper lines) that typically use a telephone socket and an RJ11 port.

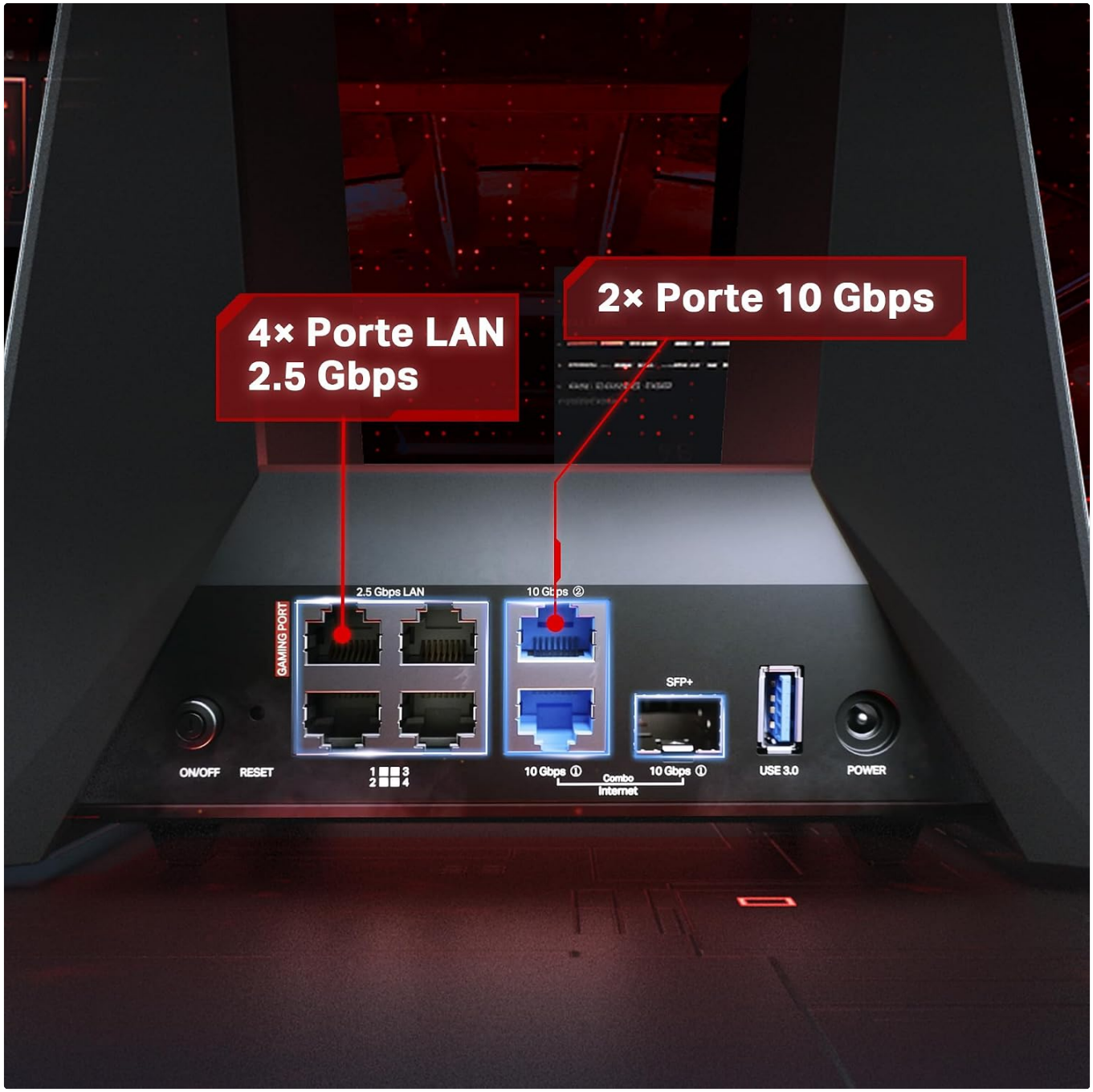


Figure 3.3: Connection compatibility for Fiber (FTTH) and incompatibility for Fiber-Copper/Copper (xDSL).

3.4 Initial Configuration

You can configure your router using the TP-Link Tether app or a web browser.

Using the TP-Link Tether App:

1. Download the TP-Link Tether app from the App Store or Google Play.
2. Connect your smartphone to the router's default Wi-Fi network (SSID and password are on the label at the bottom of the router).
3. Open the Tether app and follow the on-screen instructions to set up your router and internet connection.

Using a Web Browser:

1. Connect your computer to the router via Ethernet cable or the default Wi-Fi network.
2. Open a web browser and type http://tplinkwifi.net or http://192.168.0.1 in the address bar.
3. Create a login password when prompted.
4. Follow the Quick Setup wizard to configure your internet connection and Wi-Fi settings.

4. Operating Instructions

4.1 Wi-Fi 7 Tri-Band Connectivity

The Archer GE800 utilizes Wi-Fi 7 (802.11be) technology across three bands (2.4 GHz, 5 GHz, and 6 GHz) to provide unparalleled speed and efficiency. Multi-Link Operation (MLO) allows devices to send and receive data across different bands and channels simultaneously, reducing latency and increasing throughput.

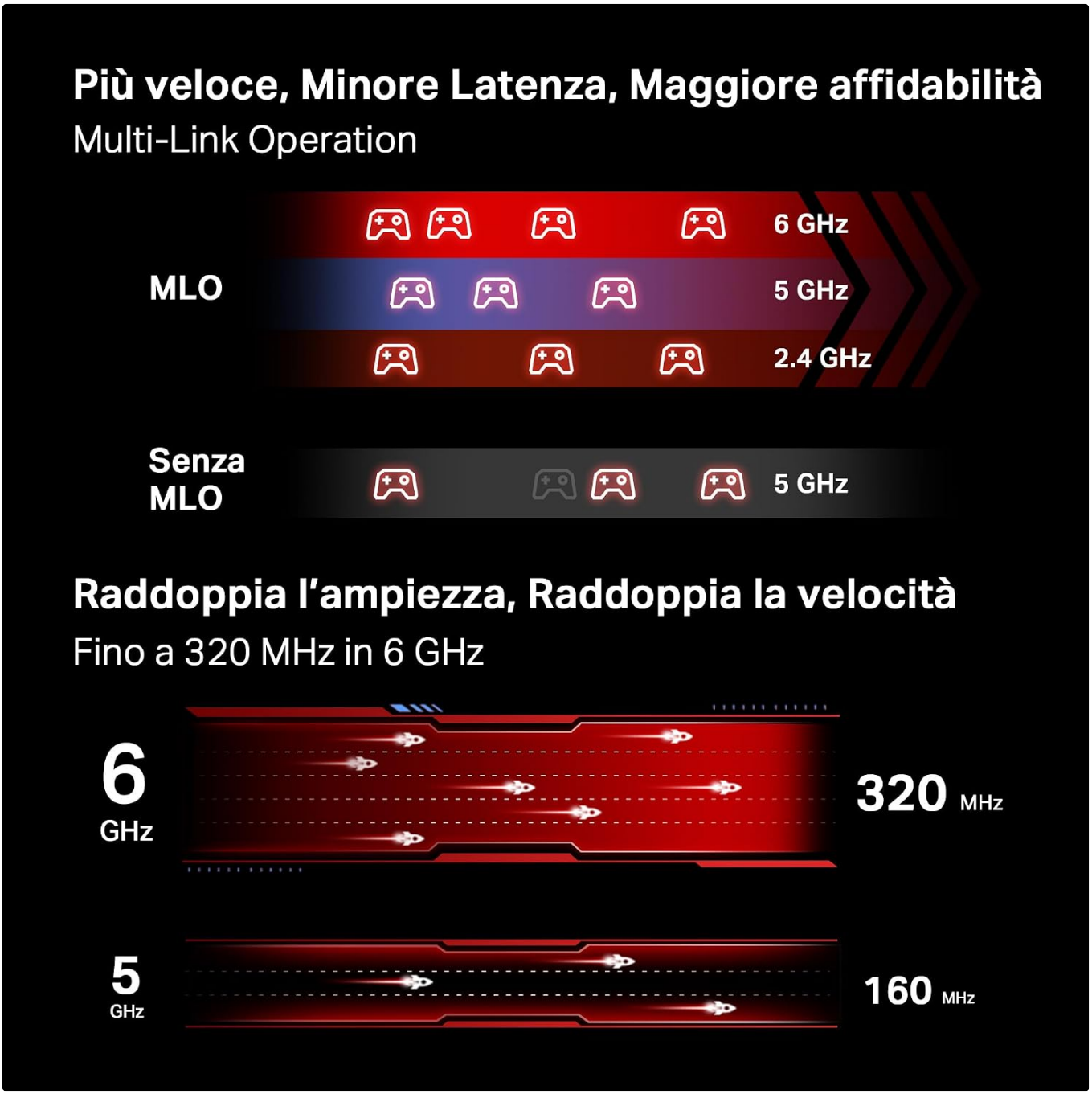


Figure 4.1: Visual representation of Wi-Fi 7 technology.

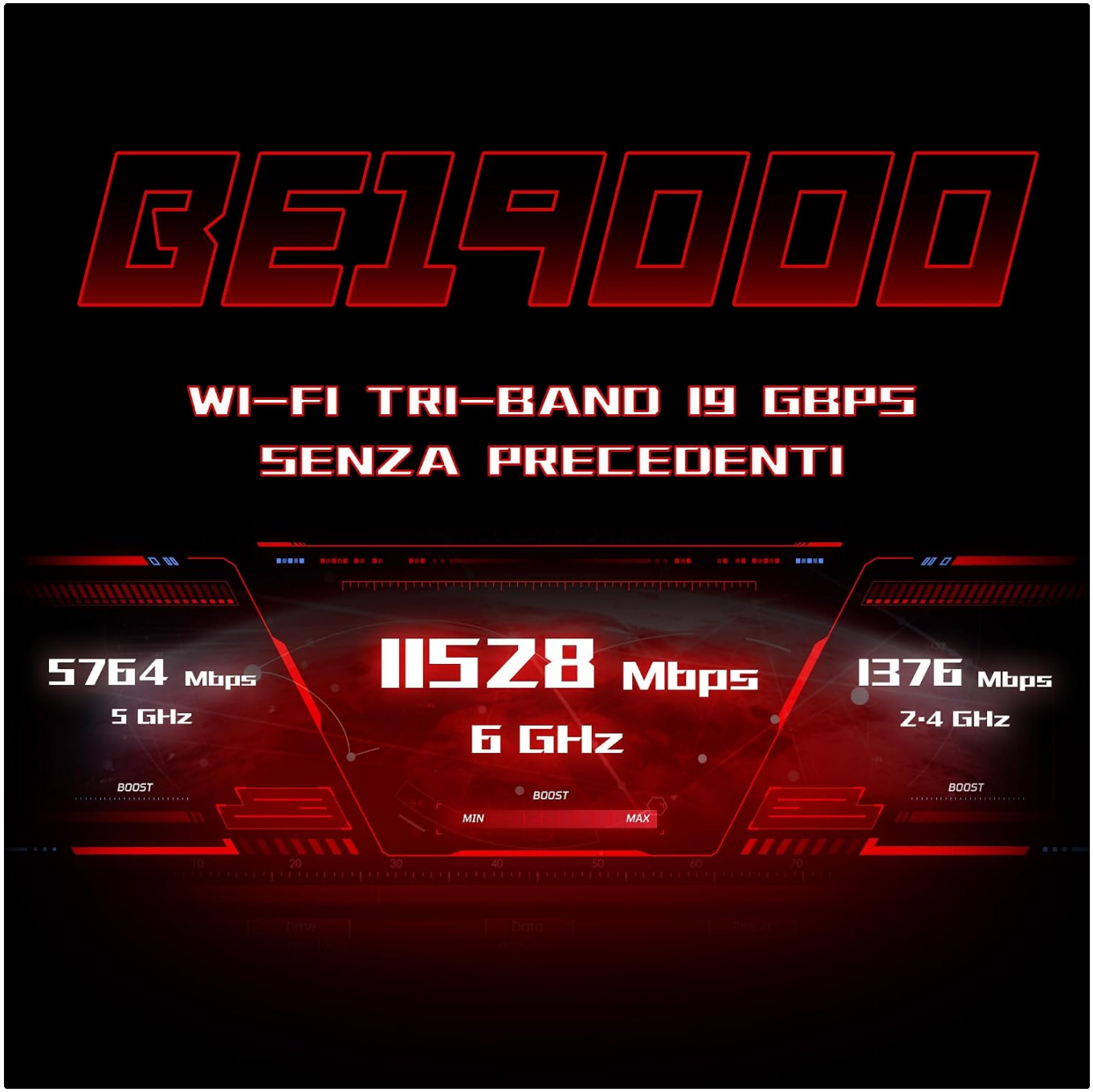


Figure 4.2: MLO benefits and 320 MHz channel width in 6 GHz band.

The router offers speeds up to 11520 Mbps on the 6 GHz band, 5760 Mbps on the 5 GHz band, and 1376 Mbps on the 2.4 GHz band, totaling BE19000 (19 Gbps).



Figure 4.3: Breakdown of BE19000 Tri-Band Wi-Fi speeds.

4.2 Dedicated Gaming Features

The Archer GE800 is equipped with exclusive features to optimize your gaming experience:

- **Game Acceleration:** Prioritizes gaming traffic, minimizes jitter, lag, and ping.
- **Game Panel:** An intuitive dashboard accessible via web UI or Tether app that provides real-time gaming environment information, network status, router performance, RGB settings, and accelerated games/devices.
- **Gaming Port:** A dedicated LAN port that automatically prioritizes any device connected to it.
- **Game Server Acceleration (GPN):** Optimizes connection to game servers for reduced latency.



Figure 4.4: Overview of exclusive gaming acceleration features.



Figure 4.5: The dedicated Game Panel for real-time network and game management.

4.3 Customizable RGB Lighting

The Archer GE800 features dynamic RGB lighting that can be customized to match your gaming setup or mood. You can select from various lighting effects and colors via the Game Panel or Tether app.

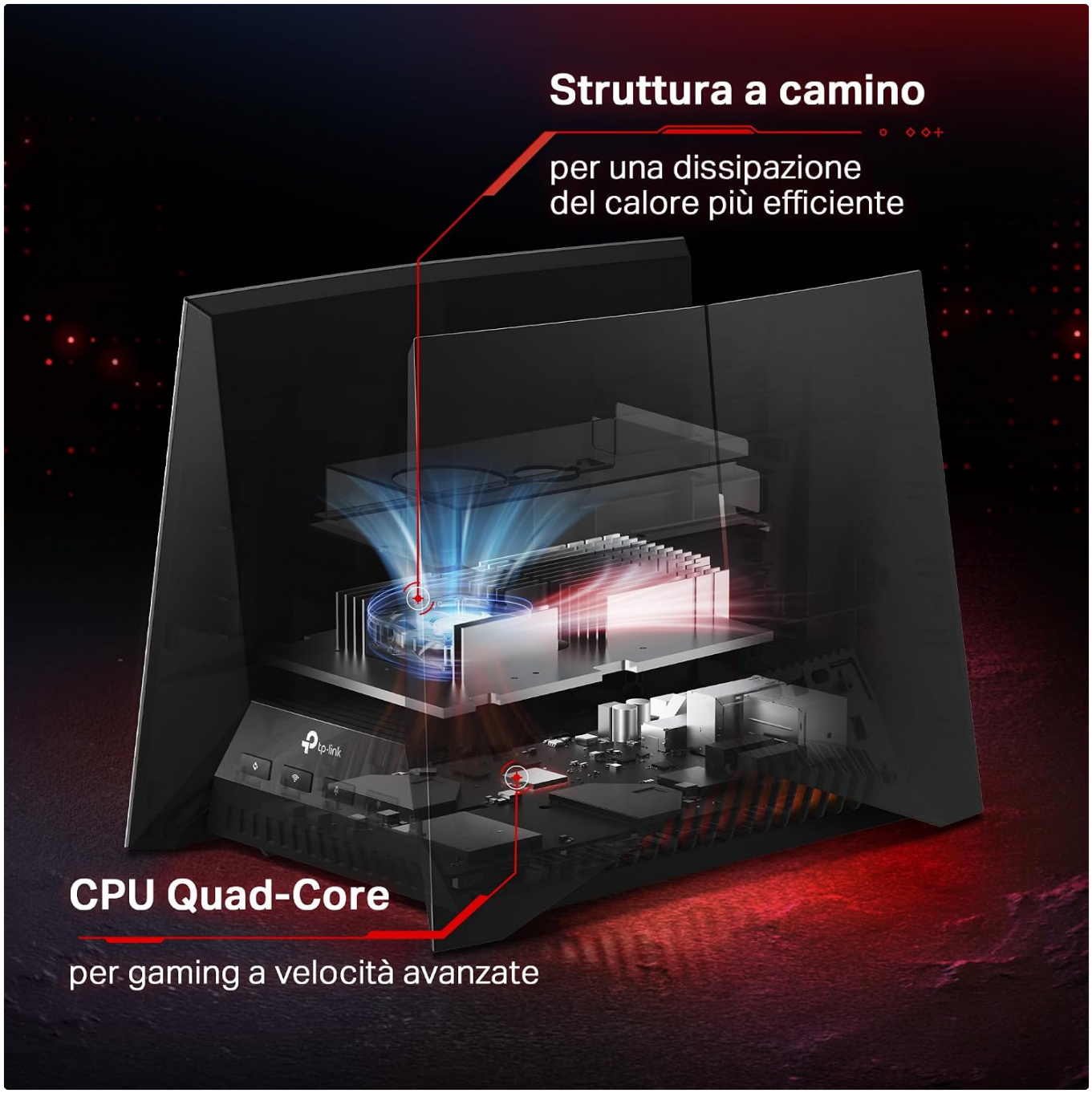


Figure 4.6: Customizable RGB lighting effects.

4.4 TP-Link HomeShield Security

HomeShield provides comprehensive network protection for all connected devices. Key features include:

- **Network Protection:** Detects and blocks malicious threats, preventing intrusions and DDoS attacks.
- **Robust Parental Controls:** Manage online time and block inappropriate content for family members.
- **Quality of Service (QoS):** Prioritize devices or activities for optimal performance.
- **IoT Protection:** Secures smart home devices from vulnerabilities.



Figure 4.7: TP-Link HomeShield advanced security features.

4.5 EasyMesh Compatibility

The Archer GE800 is compatible with EasyMesh, allowing you to create a seamless whole-home mesh Wi-Fi network by adding other EasyMesh-compatible routers or range extenders. This eliminates Wi-Fi dead zones and provides consistent coverage throughout your home.



Figure 4.8: Creating a whole-home mesh Wi-Fi network with EasyMesh.

5. Maintenance

5.1 Firmware Updates

Regularly update your router's firmware to ensure optimal performance, security, and access to new features. You can check for updates via the Tether app or the router's web management interface (System Tools > Firmware Upgrade).

5.2 Cleaning

To maintain proper airflow and prevent overheating, periodically clean the router's vents with a soft, dry cloth or compressed air. Do not use liquid cleaners or abrasive materials.

5.3 Resetting the Router

If the router is not functioning correctly, you may need to perform a factory reset. There are two types of resets:

- **Soft Reset (Reboot):** Power cycle the router by unplugging it for 10 seconds and plugging it back in.

- **Factory Reset:** With the router powered on, press and hold the Reset button on the rear panel (refer to Figure 3.1) for about 10 seconds until the LEDs flash. The router will restart with factory default settings.

6. Troubleshooting

6.1 No Internet Access

- Check all cable connections between the modem, router, and wall outlet.
- Ensure your modem is working correctly.
- Verify your internet service provider (ISP) settings in the router's web interface.
- Reboot both your modem and router.

6.2 Slow Wi-Fi Speed

- Ensure your devices support Wi-Fi 7 or Wi-Fi 6 for optimal performance.
- Reduce the distance between your devices and the router.
- Minimize interference from other electronic devices.
- Check for firmware updates.
- Use the 6 GHz or 5 GHz band for high-bandwidth activities like gaming and streaming.

6.3 Cannot Access Router Management Page

- Ensure your device is connected to the router's network.
- Verify that http://tplinkwifi.net or the router's IP address (e.g., 192.168.0.1) is typed correctly in the browser.
- Try a different web browser.
- Clear your browser's cache and cookies.

7. Specifications

Model	Archer GE800
Wi-Fi Standard	Wi-Fi 7 (802.11be)
Wi-Fi Speeds	BE19000 (19 Gbps) - 6 GHz: 11520 Mbps, 5 GHz: 5760 Mbps, 2.4 GHz: 1376 Mbps
Antennas	8 Internal Antennas
Ethernet Ports	2x 10 Gbps WAN/LAN Ports, 4x 2.5 Gbps LAN Ports
USB Ports	1x USB 3.0 Port
Processor	Quad-Core CPU
Security Protocols	WPA3, TP-Link HomeShield
Dimensions (L x W x H)	20.7L x 22.4W x 29.2H cm
Weight	2.21 Kilograms
Operating Systems	Linux (compatible with various OS for client devices)

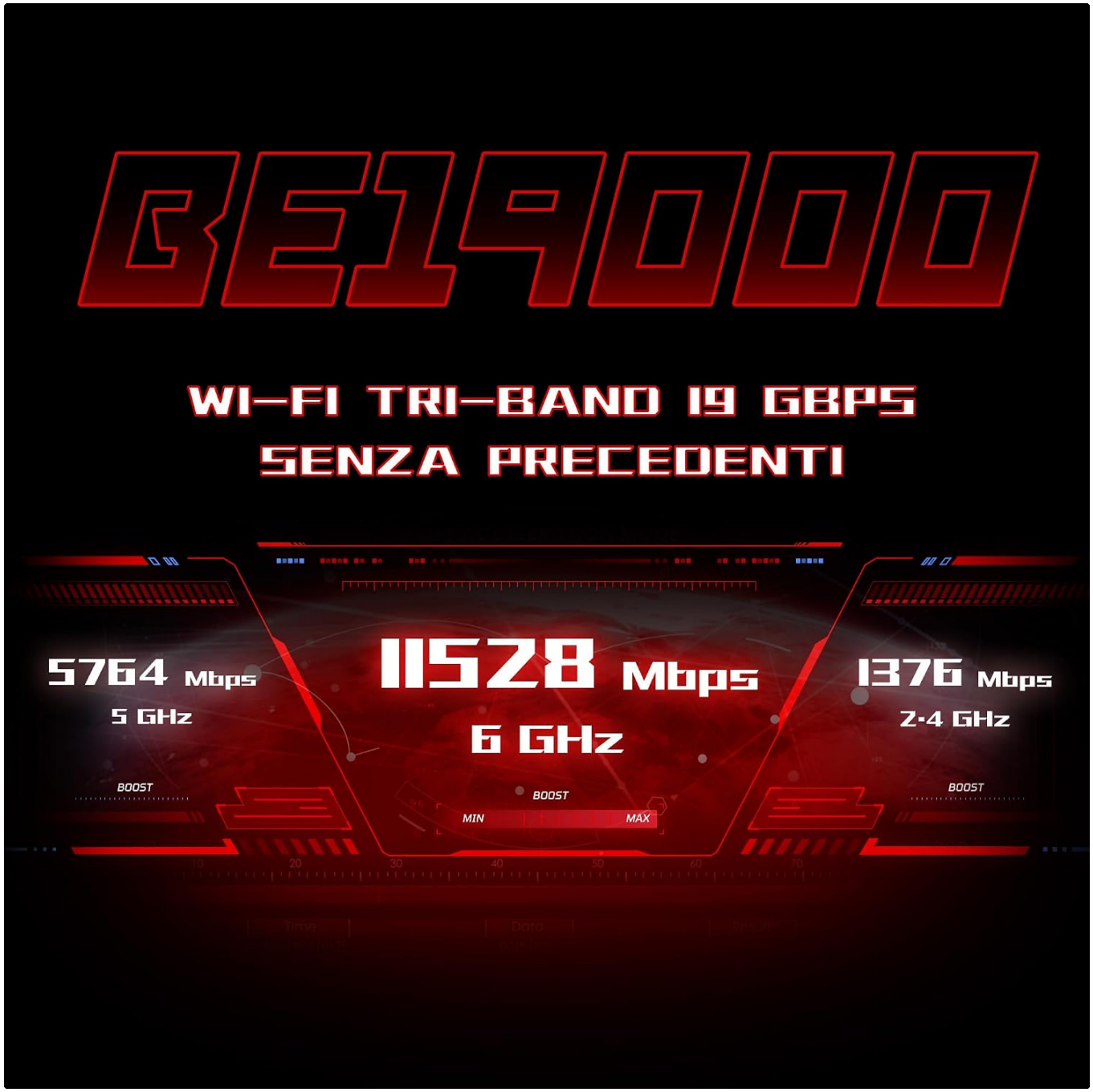


Figure 7.1: Internal antenna layout for extended coverage.



Figure 7.2: Chimney structure for efficient heat dissipation and Quad-Core CPU.

8. Warranty and Support

8.1 Product Warranty

The TP-Link Archer GE800 router comes with a **3-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For full warranty terms and conditions, please refer to the official TP-Link website or contact customer support.

8.2 Technical Support

For technical support, firmware updates, and additional resources, please visit the official TP-Link support website:

www.tp-link.com/support

You can also find FAQs, troubleshooting guides, and contact information for your region on the support page.

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

Open the live page

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