AX3000 Dual-Band Gigabit Wi-Fi 6 Router

MODEL: EX511

Overview

EX511 is a TP-Link Wi-Fi 6 router based on the 802.11ax standard. Take your Wi-Fi to the next level while being backwards compatible with 802.11a/b/g/n/ac Wi-Fi standards.

Faster Wireless Connection

Integrating the latest Wi-Fi technology, including 1024-QAM, HE160, and 4× longer OFDM symbols, EX511 reaches speeds up to 2402 Mbps on the 5 GHz band and 574 Mbps on 2.4 GHz.

Beamforming for Better Corverage

Beamforming technology detects the location of your connected devices and concentrates Wi-Fi signals towards them to create stronger overall connections.

Lastest WPA3 Security

WPA3 brings new capabilities and improves your cybersecurity. More secure encryption in Wi-Fi password safety and enhanced protection against brute-force attacks combine to safeguard your home Wi-Fi.

Easy Remote Management

TR-069 and TR-369 protocols, Aginet app, and TAUC (TP-Link Aginet Unified Cloud) are supported, service providers can manage multiple devices remotely.

*LEDs may differ from actual products.

Features

Gigabit Internet Access

Take full advantage of your broadband with speeds up to 1 Gbps through a Gigabit WAN port. Plug your PCs, smart TVs, and game consoles into one of the four Gigabit LAN ports for fast and reliable wired connections.

EasyMesh Technology

EX511 adapts this standard for improved compatibility and functionality, including Wi-Fi diagnostics, channel selection, and traffic separation.
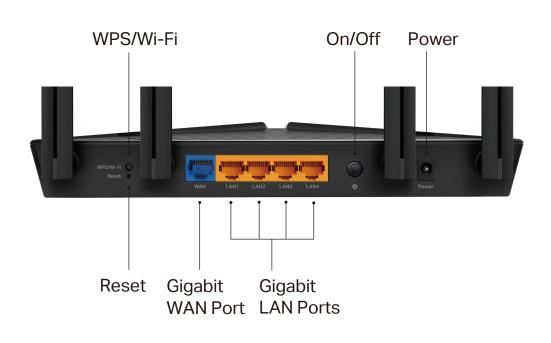
Powerful and Stable

Every click you make responds faster. A 1.0 GHz Dual-Core CPU handles multi-gig throughput and minimizes the latency within your home network, delivering you a smooth experience.

MU-MIMO: Efficient Wi-Fi for Every Device

MU-MIMO technology serves multiple devices at once. No more bandwidth congestion or latency. All devices receive their data faster and Wi-Fi is used more efficiently.

Hardware Description

WPS/Wi-Fi   On/Off   Power

Reset   Gigabit WAN Port   Gigabit LAN Ports

Specifications

Hardware

- **Interface**

  4× 10/100/1000 Mbps RJ45 LAN Ports
  1× 10/100/1000 Mbps RJ45 WAN Port

- **Antenna**

  4× High-Performance External Antennas

- **External Power Supply**

  12V/1.5A

- **Dimensions (W * D * H)**

  10.2 × 5.3 × 1.5 in (260.2 × 135.0 × 38.6 mm)

- **Button**

  Power On/Off Button, Reset Button, Wi-Fi/WPS Button

Wireless

- **Wireless Standards**

  IEEE 802.11a/n/ac/ax 5 GHz, IEEE 802.11b/g/n/ax 2.4 GHz

- **Frequency**

  2.4 GHz and 5 GHz

- **Signal Rate**

  2402 Mbps at 5GHz, 574 Mbps at 2.4GHz

- **Transmit Power**

  CE: <20dBm (2.4GHz); <23dBm (5.15GHz~5.35GHz);
  <30dBm (5.47GHz~5.725GHz)

- **Wireless Security**

  WPA/WPA2/WPA3 Personal, WPA/WPA2 Enterprise

- **Wireless Function**

  Enable/Disable Wireless Radio, WMM, Wireless Statistics,
  Multi-SSID, Guest Network, TX Beamforming

- **Wireless Schedule**

  Supports 2.4 GHz and 5 GHz Wireless Schedule

- **EasyMesh Support**

  Seamless Roaming, Self-healing, 80211k/v/r Support

Software

- **Working Mode**

  Router Mode, AP Mode

- **WAN Type**

  Dynamic IP/Static IP/PPPoE/PPTP/L2TP/Bridge
  Multi-EWAN

- **Protocols**

  Supports IPv4 and IPv6

- **Multi SSID**

  Up to 3 SSIDs for each band (including main SSID)

- **Features**

  Parental Control, Firewall, IPSEC VPN, IPv6, Port Forwarding,
  NAT Forwarding, Address Reservation, QoS(Quality of Service),
  CWMP, Network Diagnosis, Traffic Statistic, Cloud upgrade,
  1024-QAM, MU-MIMO, OFDMA, EasyMesh

- **Management**

  Local management: WebGUI management, Aginet app management
  Remote management: TR-069, TR-181, TR369, TR-111,TR-143
  Cloud management: TAUC

- **DHCP**

  Server, DHCP Client List, Address Reservation

- **Port Forwarding**

  Virtual Server, Port Triggering, UPnP, DMZ

- **Dynamic DNS**

  NO-IP, DynDNS

- **VPN Server**

  PPTP, OpenVPN, IPSec

- **VPN Pass-through**

  IPSec, PPTP, L2TP

- **Access Control**

  Parental Control, Local Management, Host List, White/Black List

- **Firewall Security**

  DoS, SPI Firewall, IP and MAC Address Binding

Others

- **System Requirements**

  Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, 8,
  8.1,10, MAC OS, NetWare, UNIX or Linux Internet Explorer 11,
  Firefox 12.0, Chrome 20.0, Safari 4.0 browers or higher.

- **Certifications**

  CE, DFS

- **Environment**

  Operating Temperature: 0°C~40°C (32°F ~104°F)
  Storage Temperature: -40°C~60°C (-40°F ~140°F)
  Operating Humidity: 10%~90% non-condensing
  Storage Humidity: 5%~90% non-condensing

- **Package Contents**

  AX3000 Dual-Band Gigabit Wi-Fi 6 Router EX511
  1× RJ45 Ethernet Cable
  1× Power Adapter
  1× Quick Installation Guide