

# AX3000 Dual-Band Gigabit Wi-Fi 6 Router

MODEL: EX521



## Overview

EX521 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, EX521 reaches speeds up to 2402 Mbps on the 5 GHz band and 574 Mbps on 2.4 GHz.



### Beamforming for Better Coverage

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



### Latest 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.

## 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

EX521 adapts this standard for improved compatibility and functionality, including Wi-Fi diagnostics, channel selection, and traffic separation.



### Powerful and Stable

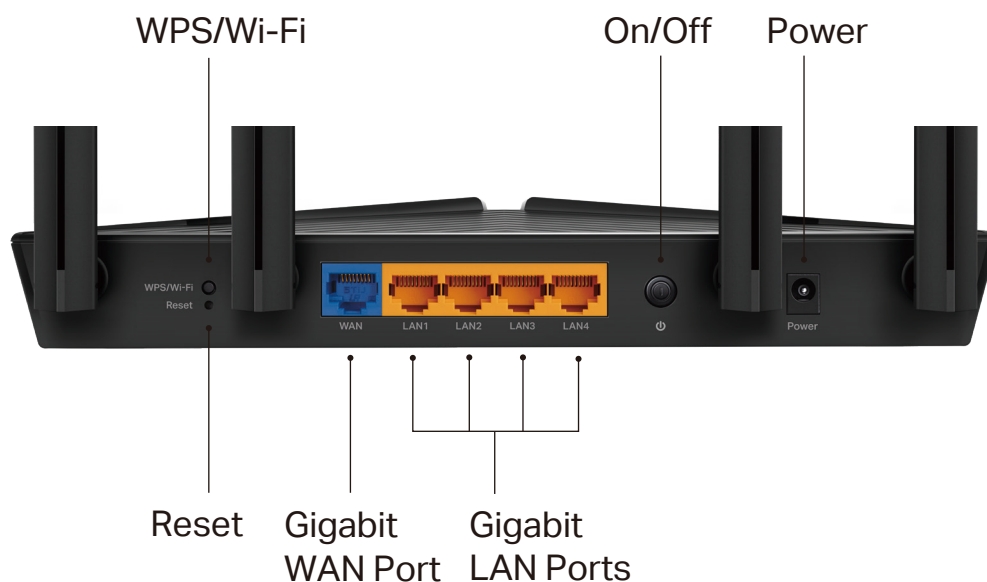
Every click you make responds faster. A 1.0 GHz Dual-Core CPU handles multi-gig throughput and minimizes the latency within your home network, delivering you a smooth experience.



### 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



# 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

## 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 browsers or higher.
- **Certifications**  
CE, DFS

## 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

- **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 EX521  
1× RJ45 Ethernet Cable  
1× Power Adapter  
1× Quick Installation Guide