

# AX6000 8-Stream Wi-Fi 6 VoIP Router

MODEL: EX820v



## Overview

The EX820v is TP-Link wireless router with Wi-Fi 6 – based on the New Era 802.11ax Wi-Fi technology. Take your Wi-Fi to the next level while being backwards compatible with 802.11a/b/g/n/ac Wi-Fi standards.



### AX6000 Dual Band Wi-Fi

Deliver total Wi-Fi speeds up to 6 Gbps (4804 Mbps on 5 GHz, 1148 Mbps on 2.4 GHz) based on 802.11ax Wi-Fi technology.



### 2.5G Internet Connection

Boost whole internet throughput up to 2.5 Gbps for more smooth and faster online activities. Three gigabit Ethernet LAN ports and one USB 3.0 port also help to transfer data at blistering speeds.



### Supports VoIP Calls

With two FXS ports, users can make or receive phone calls over the internet simply by connecting the device to their existing telephone set.



### 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.

# Specifications

## Hardware

- **Interface**  
1× 10/100/1000/2500 Mbps RJ45 WAN Port,  
1× 10/100/1000/2500 Mbps RJ45 LAN Port,  
3× 10/100/1000 Mbps RJ45 LAN Ports,  
2× FXS Ports, 1× USB 3.0 Port  
OR  
1× 10/100/1000/2500Mbps SPF+ Port,  
1× 10/100/1000/2500Mbps WAN/LAN Port,  
3× 10/100/1000Mbps LAN Port,  
2× FXS Ports, 1× USB 3.0 Port
- **Button**  
Power On/Off Button, Reset Button, Wi-Fi Button, WPS Button
- **External Power Supply**  
12V/2.5A
- **Dimensions (W \* D \* H)**  
8.46 × 6.86 × 2.46 in (214.9 × 174.3 × 62.6 mm)
- **CPU**  
2 GHz AMR Quad-Core CPU
- **Antenna**  
Internal Wi-Fi antennas

## Wireless

- **Wireless Standards**  
IEEE 802.11a/n/ac/ax 5 GHz, IEEE 802.11b/g/n/ax 2.4 GHz
- **Mesh Protocol**  
802.11k/v/r
- **Frequency**  
2.4 GHz and 5 GHz
- **Signal Rate**  
4804Mbps at 5 GHz, 1148 Mbps at 2.4 GHz
- **Transmit Power**  
CE: <20dBm (2.4GHz); <23dBm (5.15GHz~5.35GHz);  
<30dBm (5.47GHz~5.725GHz)
- **Wireless Function**  
Enable/Disable Wireless Radio, WMM, Wireless  
Statistics, Multi-SSID, Guest Network
- **Wireless Security**  
WPA/WPA2/WPA3 Personal, WPA/WPA2 Enterprise
- **Wireless Schedule**  
Support 2.4 GHz and 5 GHz Wireless Schedule
- **Support EasyMesh**

## 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.
- **Certification**  
CE, DFS

## Software

- **DHCP**  
Server, DHCP Client List, Address Reservation
- **Operation Mode**  
Router Mode
- **WAN Type**  
Dynamic IP/Static IP/PPPoE/PPTP/L2TP/Bridge  
Multi-EWAN
- **Management**  
Local management: WebGUI management, Aginet app management  
Remote management: TR-069, TR-181, TR369, TR-111, TR-143  
Cloud management: TAUC
- **Features**  
Parental Control, QoS (Quality of Service), Address Reservation,  
Port Forwarding, Cloud Upgrade, EasyMesh, IPv6, NAT Forwarding,  
Firewall, Network Diagnostic, CWMP, Traffic Statistic, 1024-QAM,  
MU-MIMO, OFDMA, IPSEC VPN
- **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
- **Protocols**  
Supports IPv4 and IPv6
- **USB Sharing**  
Supports Storage/FTP Server/Media Server
- **Multi-SSID**  
Up to 3 SSIDs for each band (including main SSID)
- **Support VoIP**
- **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**  
AX6000 8-Stream Wi-Fi 6 VoIP Router EX820v  
1× RJ45 Ethernet Cable  
1× Power Adapter  
1× RJ11 Cable  
1× Quick Installation Guide