

# AC1200 Wireless VoIP XPON Router

MODEL:XC220-G3v



## Overview

TP-Link's AC1200 Wireless VoIP XPON Router XC220-G3v is an XPON terminal that supports both Gigabit Passive Optical Network and Ethernet Passive Optical Network, ideal for Fiber-to-the-Home solution, allowing users to access high-speed internet connection via the XPON port and devices to connect wirelessly at 1200Mbps wireless 802.11ac speed. XC220-G3v provides a perfect terminal solution and future-oriented service, supporting capabilities for FTTH deployment.



### EasyMesh Compatible

Create smart mesh Wi-Fi network to cover every corner of a home with great flexibility based on standard mesh technology.



### Full Gigabit Ports

With four gigabit LAN ports, speeds can be up to 10x faster than standard Ethernet connections.



### Supports VoIP Calls

With FXS port, users can make or receive phone calls over the Internet simply.



### Easy Remote Management

Supports OMCI and TR-069, which make it easy to activate, configure and manage remotely.

## Features



### Speed

- Fast Wireless Speed
- Support 802.11 ac
- 2x2 MU-MIMO
- Gigabit Wired Speed



### Wi-Fi Range

- Optimal Range Wi-Fi
- Beamforming



### Reliability

- Simultaneous Dual Band
- Easy Bandwidth Management



### Ease of Use

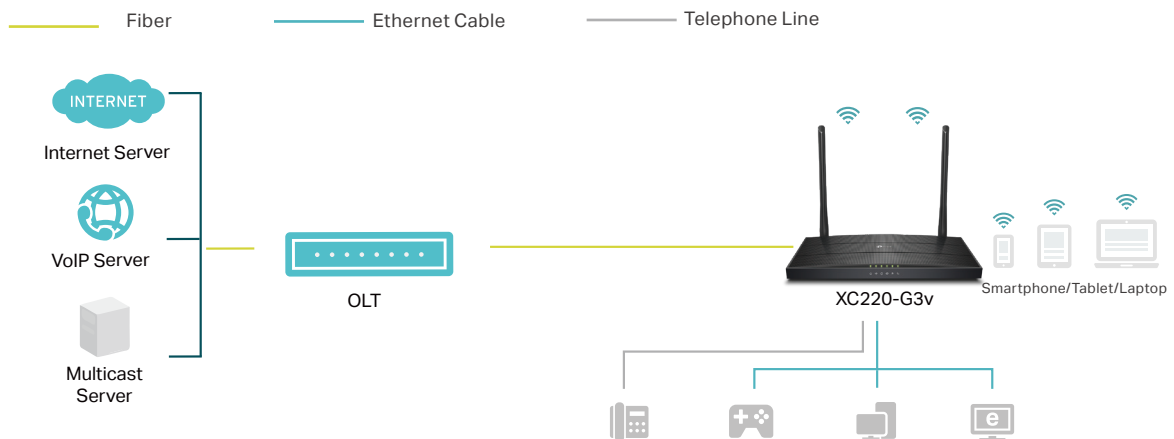
- Intuitive Web UI
- Fast Encryption
- Web UI Upgrade



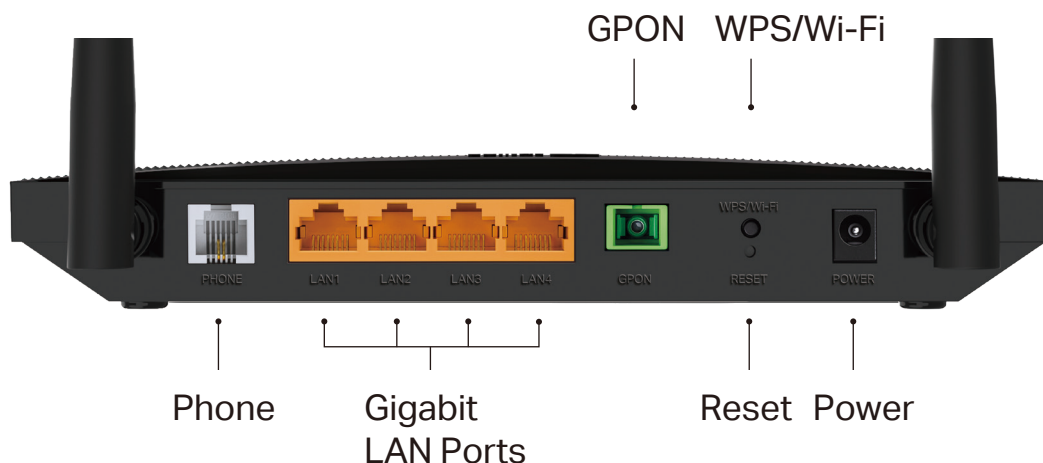
### Security

- Multi-SSID
- Parental Control
- Encryptions for Secure Network

## Network Topology



## Hardware Description



# Specifications

## Hardware

- Interface  
4 10/100/1000 Mbps RJ45 LAN Ports,  
1 SC/APC GPON Port, 1 RJ11 FXS Port
- Button  
WPS/Wi-Fi Button, Reset Button
- External Power Supply  
12V/1A
- Dimensions (W \* D \* H)  
8.6 × 6.1 × 1.4 in (217.7 × 155.5 × 36.8 mm)
- Antenna  
2 External Dual Band Antennas

## Software

- DHCP  
Server, Client, DHCP Client List, Address Reservation, DHCP Relay
- Quality of Service  
802.1p QoS
- Port Forwarding  
Virtual Server, Port Triggering, DMZ, ALG, UPnP
- Dynamic DNS  
DynDNs, NO-IP
- VPN Passthrough  
PPTP, L2TP, Pass-through
- Security  
NAT Firewall, Access Control, MAC/IP/URL Filtering, IP and MAC Address Binding, Defense "Denial of Service (DoS), SYN Flooding, Ping of Death"
- Advanced Functions  
Parental Control, Network Address Translation (NAT), Port Mapping (Grouping), Static Routing, DNS Relay, DDNS, IGMP V1/V2/V3
- Management  
Web Based Configuration (HTTP), Remote management, Command Line Interface, SSL for TR-069, Web Based Firmware Upgrade, Diagnostic Tools, OMCI
- Protocols  
Supports IPv4 and IPv6
- VoIP Features  
Call hold, Call forward, Warm call, Do not disturb, Call restriction, Speed dial, etc. Caller ID, 3-party conference, SIP account – up to 8 accounts

## General Specifications

- GPON  
ITU G. 984 standard, Class B+  
2.488Gbps downstream/1.244Gbps upstream
- EPON  
1000BASE-PX20+ symmetric  
1.25Gbps downstream/upstream
- Wavelength  
1490nm downstream/1310nm upstream
- Receiving sensitivity  
GPON: -27dBm; EPON: -27dBm
- Saturated power  
GPON: -8dBm; EPON: -3dBm
- Transmitting power  
GPON: 0.5~5dBm; EPON: 0~4dBm
- Transmitter  
DFB Laser
- Receiver  
PIN-TIA
- Distance  
0 ~ 20Km Max

## Wireless

- Wireless Standards  
IEEE 802.11ac/n/a 5 GHz, IEEE 802.11b/g/n 2.4 GHz
- Frequency  
2.4 GHz and 5 GHz (not Supports DFS)
- Signal Rate  
867 Mbps at 5 GHz, 300 Mbps at 2.4 GHz
- Transmit Power  
EU: 2.4 GHz: 20dBm(EIRP), 5 GHz: 23dBm(EIRP)  
US: 2.4 GHz: 26dBm(EIRP), 5 GHz: 28dBm(EIRP)
- Wireless Security  
WPA/WPA2/WPA3-PSK

## Others

- Certification  
CE, FCC, RoHS
- 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  
AC1200 Wireless VoIP GPON Router  
RJ45 Ethernet Cable  
Power Adapter  
Quick Installation Guide  
GPL Statement