AC1200 Wireless XPON Router

MODEL: XC220-G3

Overview

TP-Link's AC1200 Wireless XPON Router XC220-G3 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-G3 provides a perfect terminal solution and future-oriented service, supporting capabilities for FTTH deployment.

Fast Internet Access

Along with two GE LAN Ports, users can enjoy high-speed XPON services and bandwidth-intensive multimedia applications.

High-Speed XPON Service

Compliant with the XPON standards, it supports maximum data rates of up to 2.488Gbps downstream, 1.244Gbps upstream.

EasyMesh Compatible

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

Easy Remote Management

TR-069 protocol enables an operator to remotely configure and manage end-user devices.

Features

Wi-Fi Range

Two high-gain antennas increase wireless strength and stability

Reliability

IP-based Bandwidth Control makes it easier for you to manage bandwidth of the connected devices
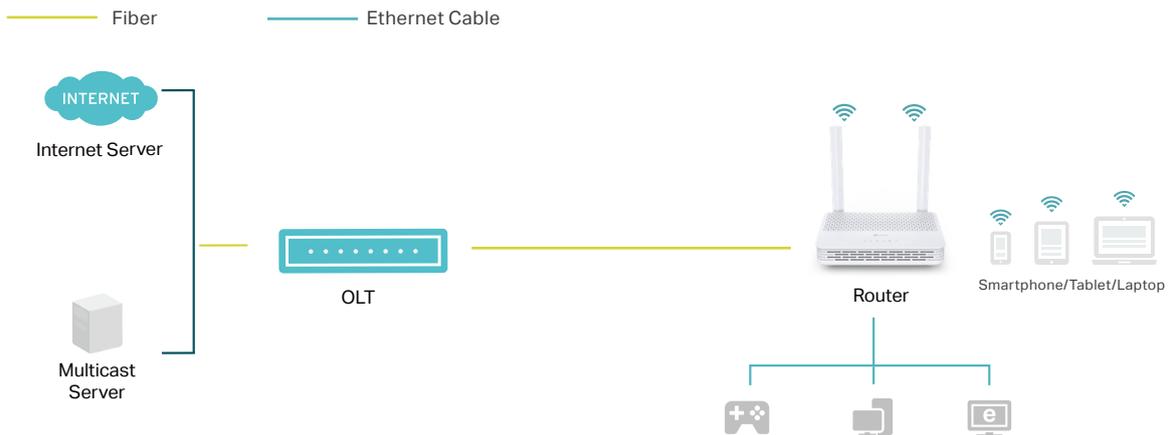
Ease of Use

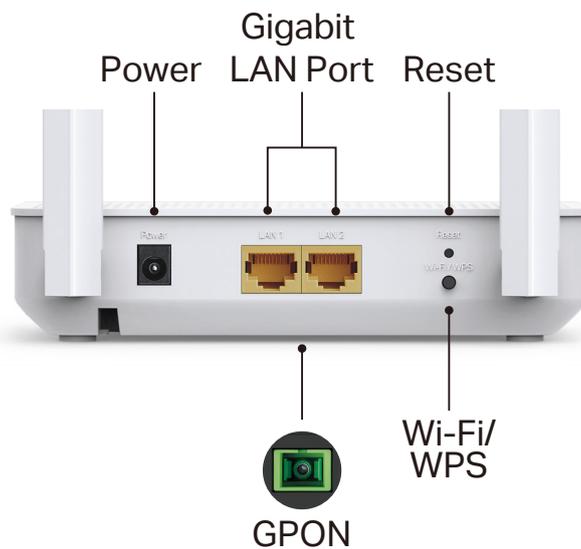Quick and hassle-free installation & Intelligent power-saving method

Security

Integrated security features of Parental Controls, VPN Server, Encryptions for Secure Network

Network Topology

—— Fiber   —— Ethernet Cable

INTERNET

Internet Server

Multicast Server

OLT

Router

Smartphone/Tablet/Laptop

Hardware Description

Power

Gigabit LAN Port

Reset

GPON

Wi-Fi/ WPS

Specifications

Hardware

- **Interface**
  1× SC/APC PON Port,
  2× 10/100/1000Mbps LAN Port
- **Power Adapter Input**
  100-240V/50-60Hz
- **Power Adapter Output**
  12V/1A
- **Button**
  Reset Button, WPS/Wi-Fi Button
- **CPU**
  900MHz Dual-Core CPU
- **Dimensions (W * D * H)**
  6.19 × 4.42 × 1.46 in. (157.23 × 112.36 × 37 mm)
- **Antenna type**
  Two External Antennas

Software

- **Protocols**
  Supports IPv4 and IPv6
- **Working Mode**
  Router
- **Multi-SSID**
  Up to 3 SSIDs for each band
- **Management**
  Local Management, Remote Management, TR-069(TR-098),
  TR-143
- **DHCP**
  Server, Client
- **Firewall Security**
  SPI Firewall, DDoS, Access Control, IP-MAC binding
- **WAN Connection Type**
  Dynamic IP/Static IP/PPPoE
- **IGMP**
  Support IPTV, IGMPV2/3 and IGMP Snooping/Proxy
- **Routering**
  Static Routing, RIP
- **NAT Forwarding**
  ALG, Virtual Server, Port Triggering, DMZ, UPnP
- **DDNS**
  NO-IP, DynDNS
- **Quality of Service**
  WMM
- **Parental Control**
- **Wi-Fi Schedule**

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
- **Input optical power**
  -18dBm~0dBm
- **Output reflection loss**
  >15dB 47MHz~1000MHz
- **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 (DFS not supported)
- **Signal Rate**
  867 Mbps at 5 GHz, 300 Mbps at 2.4 GHz
- **Transmit Power**
  2.4 GHz: 26dBm(EIRP), 5 GHz: 28dBm(EIRP)
- **Wireless Security**
  WPA/WPA2/WPA3-PSK

Others

- **Certification**
  CE, 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 XPON Router XC220-G3
  1× RJ45 Ethernet Cable
  1× Power Adapter
  1× Quick Installation Guide
  1× GPL Statement