

# 300Mbps Wireless N Gigabit XPON Router with CATV

MODEL: XN021-G3



## Overview

TP-Link's 300Mbps Wireless N Gigabit XPON router with CATV XN021-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 300Mbps wireless 802.11n speed. XN021-G3 provides a perfect terminal solution and future-oriented service, supporting capabilities for FTTH deployment.



### Fast Internet Access

Along with along with a GE LAN Port and a FE LAN Port, 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.



### CATV Connection

Connect the TV and the CATV port of the ONU through a coaxial cable for cable TV service.



### 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

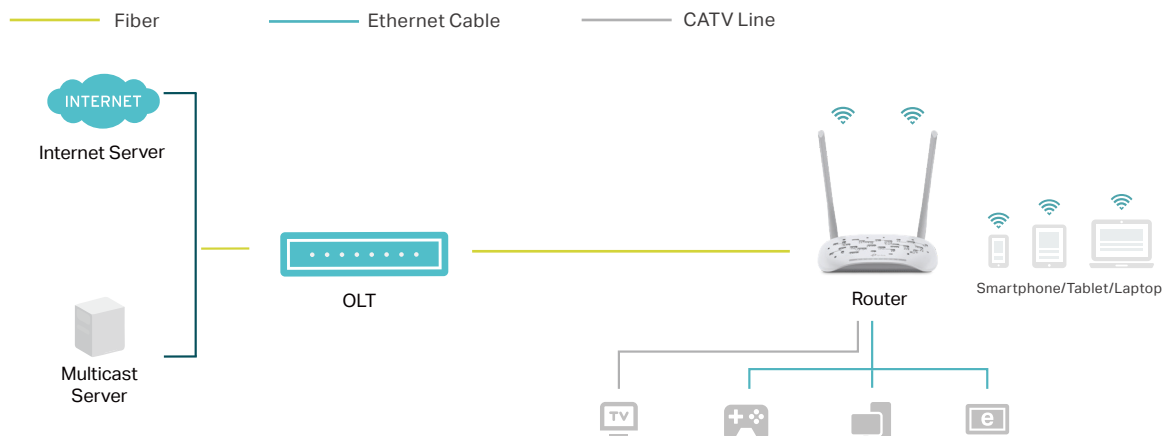
Quick and hassle-free installation & Intelligent power-saving method



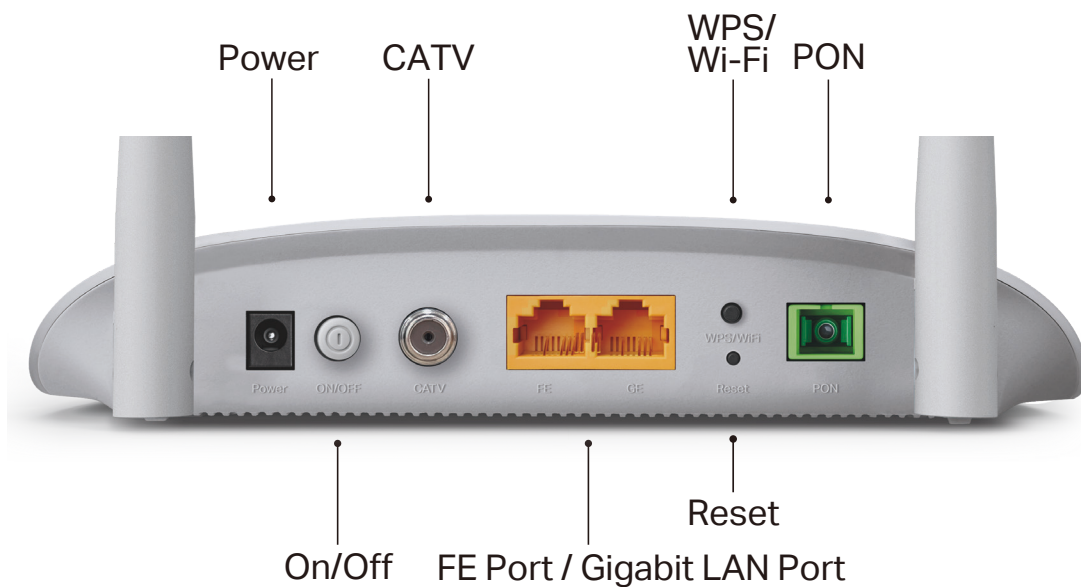
### Security

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

## Network Topology



## Hardware Description



# Specifications

## Hardware

- Interface  
1× GE SC/APC PON Port, 1× RF Port, 1× FE Port,  
1× 10/100/1000Mbps LAN Port,
- Power Adapter Input  
100-240V/50-60Hz
- Power Adapter Output  
9V/0.6A
- Button  
Reset Button
- CPU  
900MHz Dual-Core CPU
- Dimensions (W \* D \* H)  
7.1 × 4.9 × 1.4 in. (181.6 × 125.7 × 36.2 mm)

## 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
- Routing  
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 802.11b/g/n
- Frequency  
2.4GHz
- Signal Rate  
Up to 300 Mbps
- Transmit Power  
CE: <20dBm
- Wireless Security  
WPA/WPA2/WPA3 Personal, WPA/WPA2 Enterprise

## 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  
300Mbps Wireless N Gigabit XPON Router with CATV XN021-G3  
1× RJ45 Ethernet Cable  
1× Power Adapter  
1× Quick Installation Guide  
1× GPL Statement