tp-link | **S** SERVICE PROVIDER

300Mbps Wireless N Gigabit VoIP GPON Router
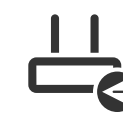
## All-in-One Device

XN020-G3v

×1 VoIP | GE LAN | Remote Management

Highlights

Make Fiber-to-the-Home Yours

TP-Link's N300 Wireless GPON router XN020-G3v is a Gigabit Passive Optical Network (GPON) terminal, ideal for Fiber-to-the-Home solution, allowing users to access high-speed internet connection via the GPON port and devices to connect wirelessly at 300Mbps wireless 802.11n speeds. XN020-G3v provides a perfect terminal solution and future-oriented service, supporting capabilities for FTTH deployment.
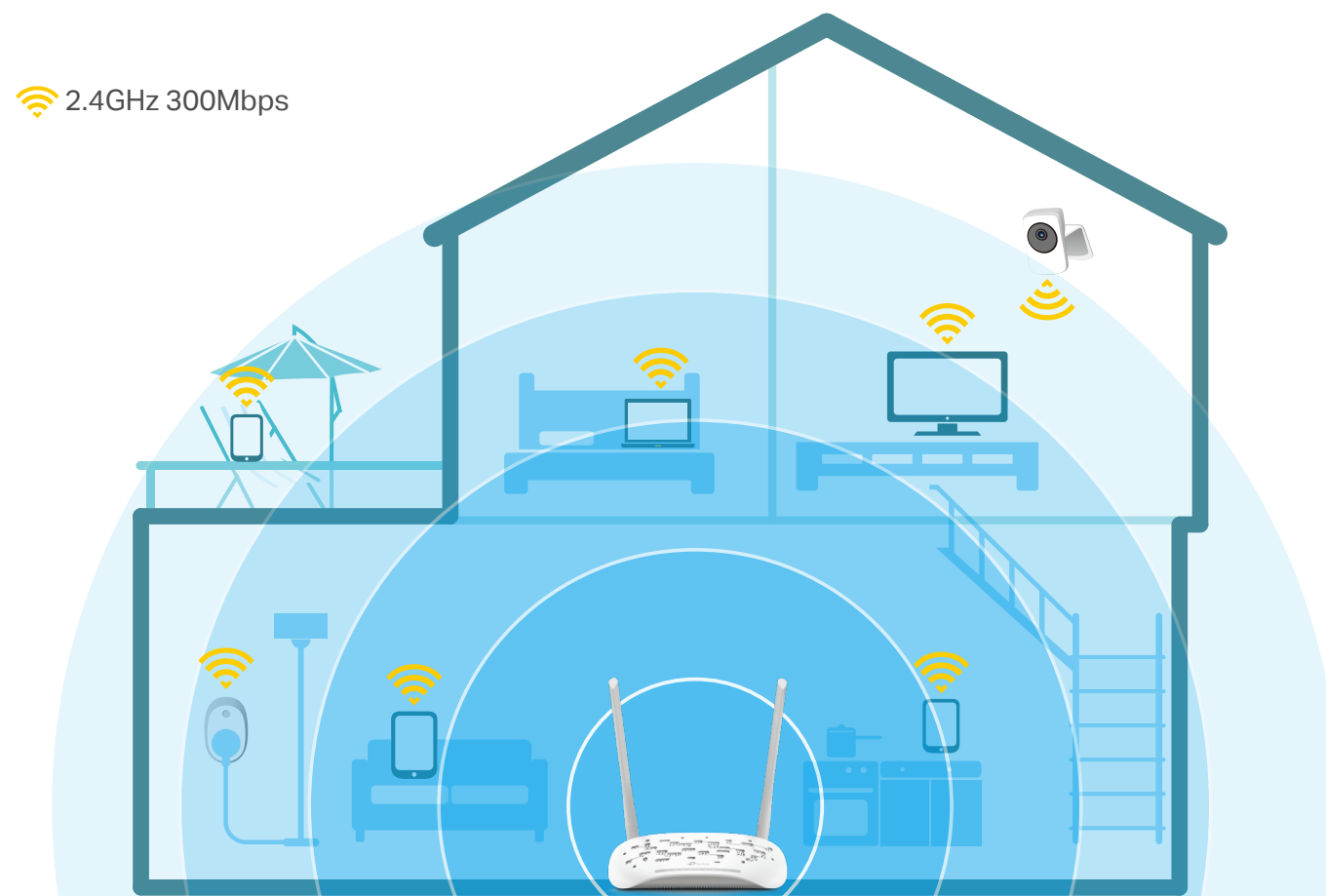
High-speed GPON Service

Compliant with the ITU-T G.984 GPON standards, XN020-G3v supports maximum data rates of up to 2.488Gbps downstream, 1.244Gbps upstream. Along with 1 10/100/1000Mbps LAN Port and 1 10/100Mbps LAN Port, users can enjoy high-speed GPON services and bandwidth-intensive multimedia applications such as interactive gaming, streaming and real-time audio much easier and faster than ever before.

2.4GHz 300Mbps

Upstream 1.244Gbps

Downstream 2.488Gbps

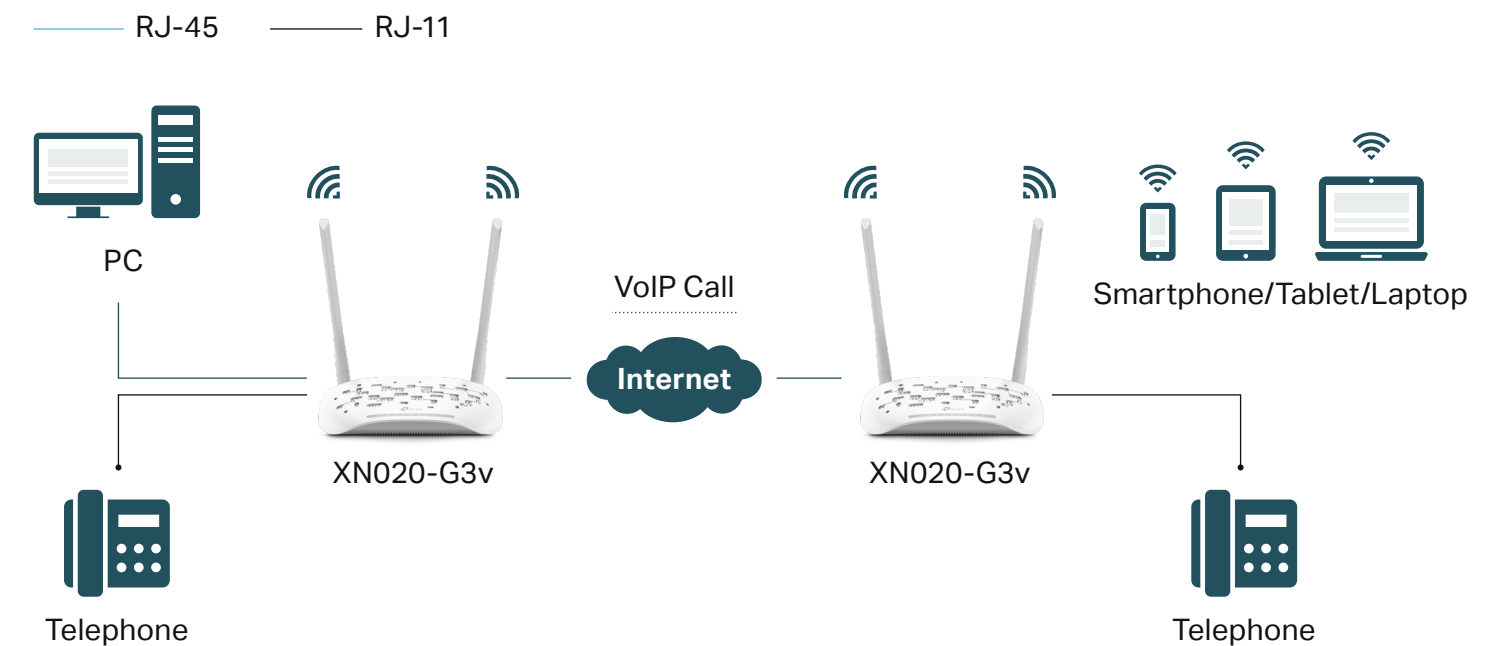TP-Link   300Mbps Wireless N Gigabit VoIP GPON Router   XN020-G3v
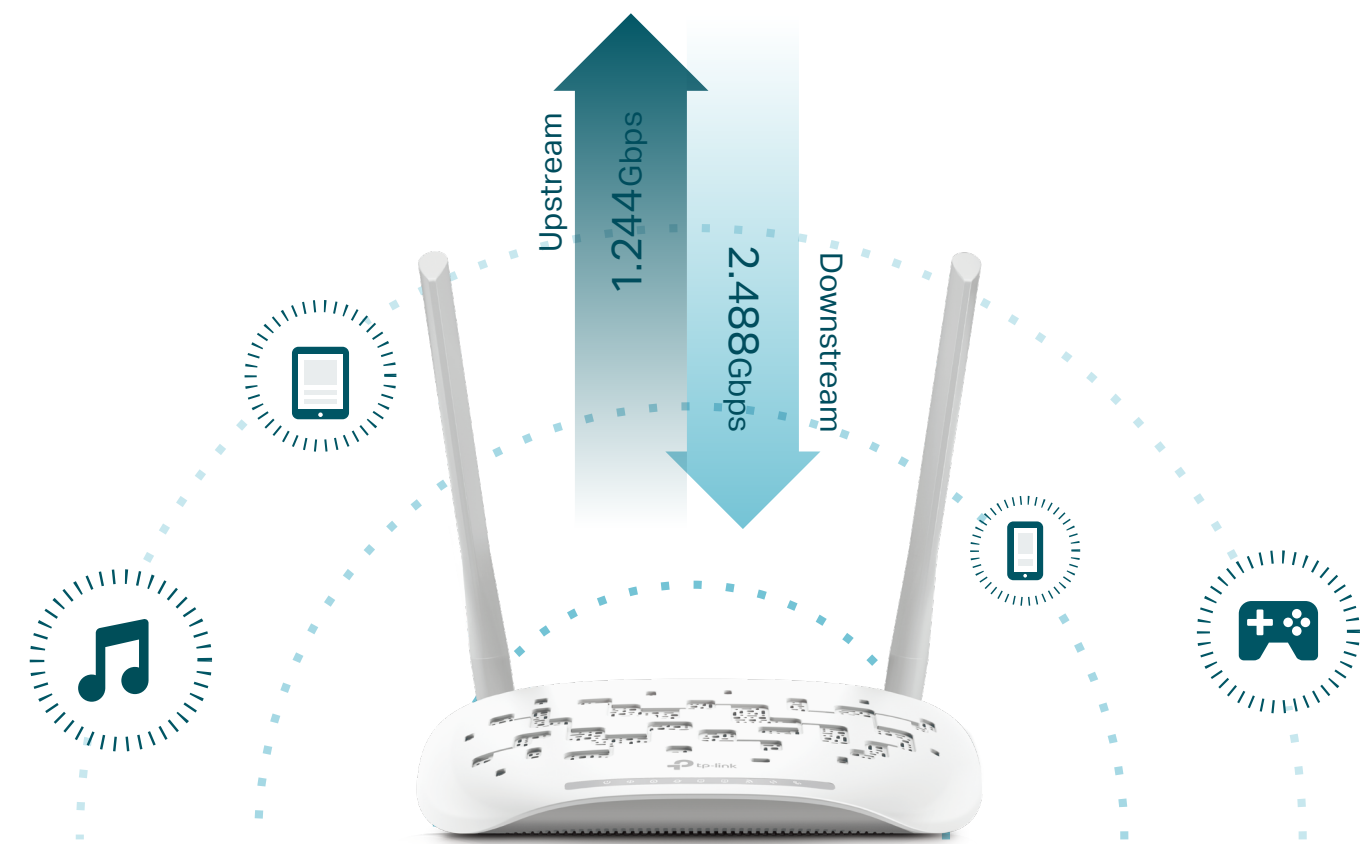
Highlights

All-in-One Device

With a GPON modem, 300Mbps wireless AP and 2-port Switch, 1-port FXS, the XN020-G3v is everything your home or office needs to be fully connected.
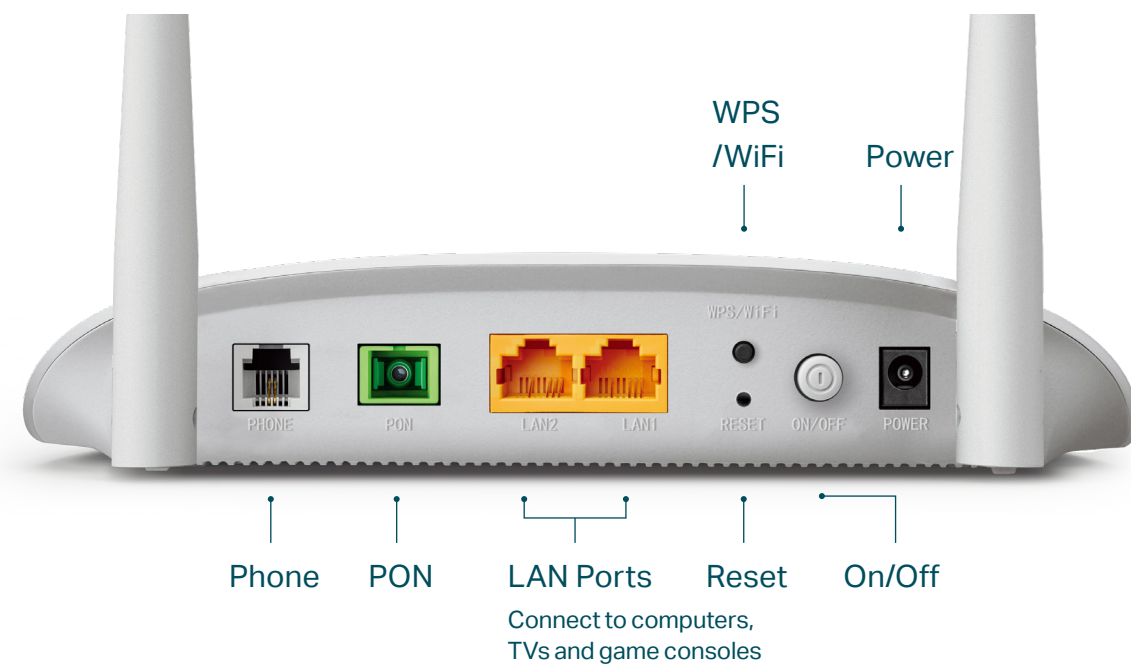
VoIP Calls

Supports up to 8 VoIP accounts and various call features, such as caller ID, call waiting, call holding and call forwarding to surpass traditional landlines.

WPS
/WiFi   Power

Phone   PON   LAN Ports   Reset   On/Off
Connect to computers,
TVs and game consoles

RJ-45   RJ-11

PC

VoIP Call

Internet

XN020-G3v   XN020-G3v

Smartphone/Tablet/Laptop

Telephone   Telephone

Features

Speed

· Extremely high access speed up to 2.488Gbps Downstream and 1.244Gbps Upstream

· 300Mbps wireless transmission rate ideal for both bandwidth sensitive tasks and basic work
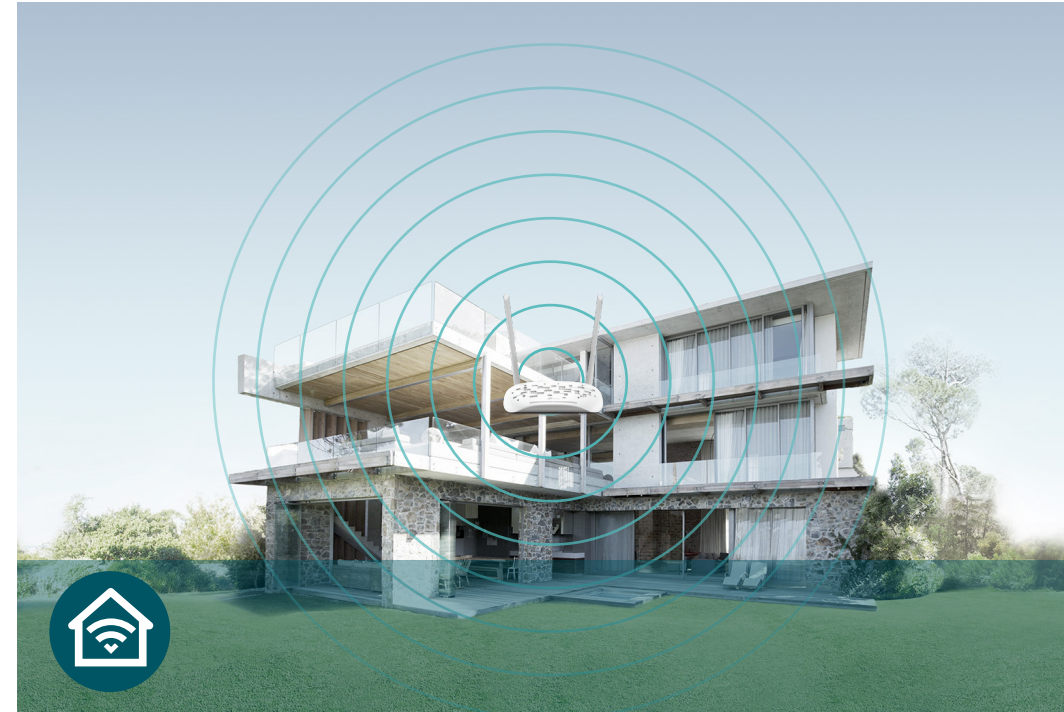
Wi-Fi Range

· Two high-gain antennas increase wireless strength and stability

Reliability

· Easy Bandwidth Management – IP-based Bandwidth Control makes it easier for you to manage bandwidth of the connected devices

Features

Ease of Use

· Intuitive Web UI – Ensures quick and simple installation without hassle

· Fast Connection – Connect wireless devices securely with the press of WPS button

· Easy On/Off – Turn On/Off power and wireless radio separately using the Power On/Off and Wi-Fi On/Off buttons

· Web UI Upgrade – Update firmware on the web UI

Security

· Parental Controls – Manage when and how connected devices can access the internet

· VPN Server – OpenVPN, PPTP VPN and IPSec VPN are supported, making it easy to set up a secure connection between your private network and the internet

· Encryptions for Secure Network – WPA-PSK/WPA2- PSK encryptions provide active protection against security threats

Specifications

Hardware

· Interface: 1SC/APC Port, 1 10/100/1000Mbps LAN Port, 1 10/100Mbps LAN Port, 1 FXS Port

· Button: Power On/Off Button, Reset Button, WPS / Wi-Fi Button

· External Power Supply: 12V/0.6A

· Dimensions (W x D x H): 7.1 ×4.9× 1.4 in. (181 ×125 ×36mm)

· IEEE Standards: IEEE 802.3, IEEE 802.3u, 802.3ab

· Wireless Standards: IEEE 802.11g, 802.11b,802.11n

· GPON Standards: ITU G.984.1, ITU G.984.2, ITU G.984.3, ITU G.984.4

· VoIP Standard: SIP (RFC3261)/RTP(RFC1889/3550), ITU-T G.711A/u, G.722, G.729AB, G.726, T.38 pass-through

· Antenna Type: External , 2 x 2 5dBi for 2.4GHz

Wireless

· Wireless Standards: IEEE 802.11g, 802.11b,802.11n

· Frequency: 2.4GHz

· Signal Rate: 300Mbps at 2.4GHz

· Transmit Power: <20dBm (2.4GHz)

· Wireless Function: Enable/Disable Wireless Radio, WMM, Wireless Statistics

· Wireless Security: 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA-PSK2 encryptions

· Wireless Schedule: Support 2.4GHz Schedule

Specifications

Software

· **DHCP:** Server, Client, DHCP Client List, Address Reservation, DHCP Relay

· **Quality of Service:** ATM QoS, QoS

· **Port Forwarding:** Virtual Server, Port Triggering, DMZ, ALG, UPnP

· **Dynamic DNS:** DynDns, NO-IP

· **VPN:** OpenVPN, PPTP VPN, IPSec VPN

· **Security:** NAT Firewall, SPI Firewall, Access Control, MAC/URL Filtering, Denial of Service (DoS), SYN Flooding, Ping of Death, IP and MAC Address Binding

· **Advanced Functions:** SN, Password, SN + Password Authentication Mode, Upstream and Downstream FEC, AES encryption, Dynamic Bandwidth, Allocation(DBA) support NSR/SR, 802.1Q VLAN, Static Routing, IGMP v1/v2 /v3, 16 T-CONTs, 256 GEM Ports

· **Management:** OMCI, Web Based Configuration, Command Line Interface, SSL for TR-069, OMCI Based Firmware Upgrade

· **IPSec VPN:** Support up to 10 IPSec VPN tunnels

· **Protocols:** Supports IPv4 and IPv6

Others

· **Certification:** CE, Anatel

· **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 , or other Java-enabled browser

Cable or DSL Modem

· **Environment**

Operating Temperature: 0°C~40°C (32°F ~104°F)

Storage Temperature: -40°C~70°C (-40°F ~158°F)

Operating Humidity: 10%~90% non-condensing

Storage Humidity: 5%~90% non-condensing

· **Package Contents**

300Mbps Wireless N Gigabit VoIP GPON Router XN020-G3v

RJ11 Phone Cable

RJ45 Ethernet Cable

Quick Installation Guide

Power Adapter