AX3000 Wireless XPON Router with CATV

MODEL:XX531



Overview

Compliant with the ITU-T G.984 GPON standards, XX531 supports maximum data rates of up to 2.488Gbps downstream and 1.244Gbps upstream. Along with a 10/100/1,000Mbps WAN/LAN port and a 10/100/1,000Mbps LAN port, users can enjoy high-speed GPON services and bandwidth-intensive multimedia applications—such as interactive gaming, streaming, and real-time video—much faster and easier than ever before.

802.11ax Technology

Create a seamless Wi-Fi network in your home with the revolutionary combination of OFDMA, MU-MIMO, and Beamforming technologies

Ultimate Wireless Speed

Combined wireless speeds of up to 574 Mbps (over 2.4 GHz) and 2402 Mbps (over 5 GHz)

CATV Connection

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

Easy Remote Management

Supports Aginet APP, OMCI, TR-069, TR-098, and TR181 now.

Features

AX3000 Dual-Band Wi-Fi 6

2402 Mbps (5 GHz) + 574 Mbps (2.4 GHz)

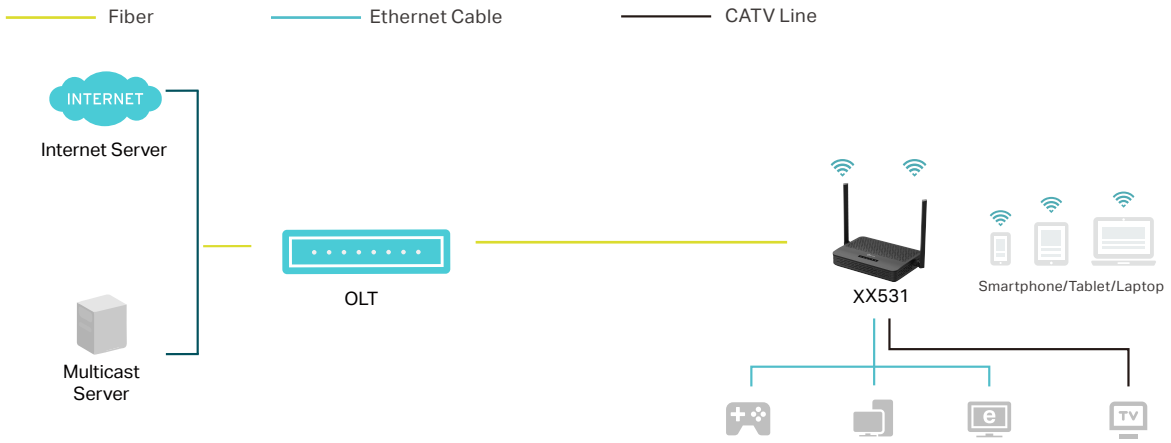
Supports EasyMesh

Adopts EasyMesh technology, which has further improved and standardized Wi-Fi functions.

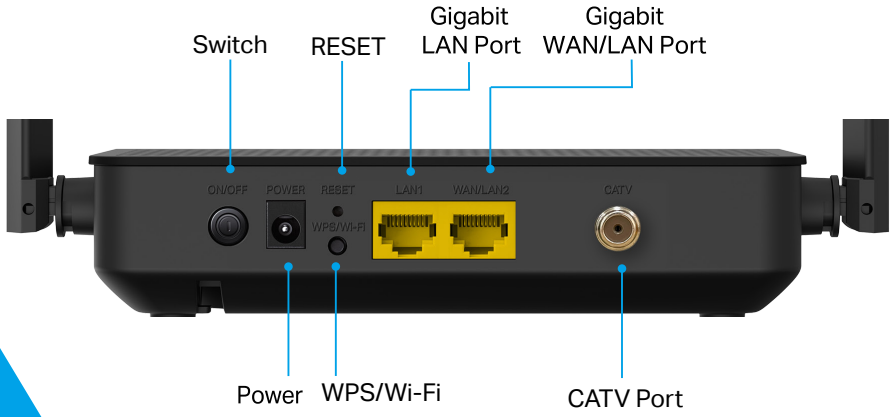
Multi-Function Ports

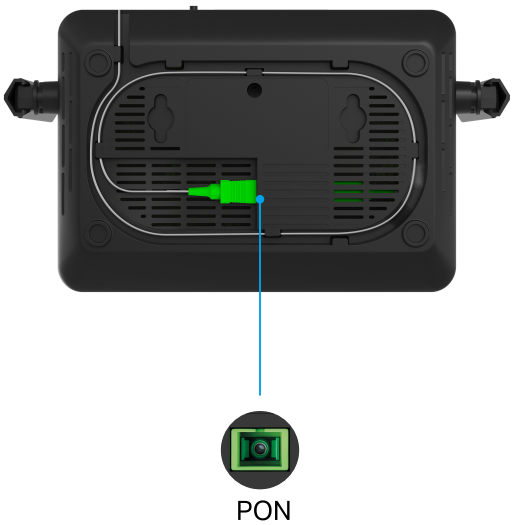
1× GE WAN/LAN + 1× GE LAN + 1 × PON + 1× CATV

Network Topology



Hardware Description





Specifications

Hardware

- Interface

  1×10/100/1000 Mbps WAN/LAN Port,
  1×10/100/1000 Mbps LAN Port,
  1×CATV Port,
  1×SC/APC GPON Port

- Button

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

- External Power Supply

  12V/1.5A

- Dimensions (W * D * H)

  6.8 × 4.4 × 1.5 in (172 × 112.4 × 37 mm)

- Antenna

  2 High-Performance External Antennas

Wireless

- Wireless Standards

  IEEE 802.11a/n/ac/ax 5 GHz, IEEE 802.11b/g/n/ax 2.4 GHz

- Frequency

Band	Frequency
2.4G	2402-2472MHz (1-11)
5G	5170-5250MHz (band1) 5250-5330MHz (band2) 5490-5730MHz (band3) 5735-5835MHz (band4)

- Signal Rate

  2402 Mbps at 5 GHz, 574 Mbps at 2.4 GHz

- Transmit Power

  EU: <20 dBm (2.4 GHz), <23 dBm (5 GHz)
  US: <26 dBm (2.4 GHz), <28 dBm (5 GHz)

- Wireless Function

  Enable/Disable Wireless Radio, Wireless Schedule, WMM, Wireless Statistics

- Mesh

  EasyMesh, IEEE 802.11k/v/r, Self-healing, Seamless Roaming

- Wireless Security

  WPA-PSK(TKIP/AES), WPA2-PSK(TKIP/AES), WPA2 PSK/WPA PSK mixed mode 802.1x(WPA2 Enterprise)

- Wireless Schedule

  Support 2.4 GHz and 5 GHz Wireless Schedule

Others

- Certification

  CE

- Environment

  Operating Temperature: 0°C~40°C (32°F~104°F),
  Storage Temperature: -40°C~60°C (-40°F ~140°F)

- Package Contents

  1× AX3000 Wireless XPON Router with CATV XX531
  1× Power Adapter
  1× RJ45 Ethernet Cable
  1× Quick Installation Guide

Software

- DHCP

  Server, DHCP Client List, Address Reservation

- Quality of Service

  Hardware QoS, Flow Classification

- Firewall Security

  DoS, IPv4 SPI Firewall, IPv6 Firewall, IP and MAC Address Binding, Access Control

- Dynamic DNS

  TP-Link, DynDns, NO-IP

- Protocols

  IPv4, IPv6

- Management

  Local Management, Remote Management, Aginet APP, TR069(TR-098/TR-181)

- Advanced Functions

  Parental Controls, Port Forwarding, TX Beamforming, MU-MIMO, supports IGMP Proxy V1/V2/V3 and IGMP Snooping, Airtime Fairness, Band Steering, Milti-SSID, Wi-Fi Schedule

General Specifications

- GPON

  ITU G. 984 standard, Class B+
  2.488Gbps downstream/1.244Gbps 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

- CATV Input optical power

  0~-11dBm

- CATV Output reflection loss

  >16dB

- EPON

  1000BASE-PX20+symmetric
  1.25Gbps downstream/upstream