

BE19000 Tri-Band Wi-Fi 7 XGS-PON Router

MODEL: XGB835v



Overview

XGB835v is a premium XGS-PON tri-band VoIP router based on the next-gen Wi-Fi 7 technology. Featuring the latest 6 GHz band, 320 MHz bandwidth, and 4K-QAM for a combined speed of up to 22 Gbps across 12 streams. Its dynamic backhaul provides solid connections for over 200 devices.

XGB835v provides XGPON (10G-PON) fiber access options. As one of the latest generation of fiber access technologies widely recognized, it has the characteristics of high speed, high resolution, long-distance coverage, large capacity and flexibility. It is also equipped with a 10GE WAN port for direct Ethernet internet access, a 10GE LAN port and three 2.5GE LAN ports for fast and reliable wired connection. Perfect for FTTH deployment and a fully connected home.

As a product for ISP customers, XGB835v also supports the complete Aginet Solution, providing complete configuration and management solutions to ensure the ISP's operation and maintenance experience.



BE19000 Tri-Band Wi-Fi

Deliver total Wi-Fi speeds up to 19 Gbps across 6 GHz, 5 GHz, and 2.4 GHz bands for even faster speeds, lower latency, and better online experience.



10G Symmetrical Connection

XGS-PON technology provides up to 10 Gbps for both downstream and upstream simultaneously, meeting higher demand of various high-bandwidth services with high-quality.



Multi-Gig Wired Connection

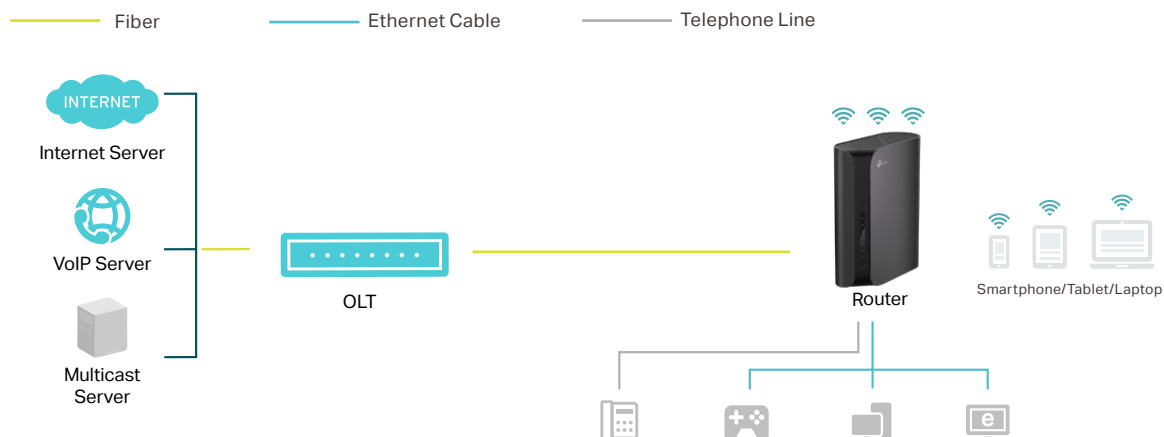
Take full use of the bandwidth speeds to 10 Gbps through a 10GE LAN port and three 2.5GE LAN ports for blazing-fast wired connections.



EasyMesh Compatible

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

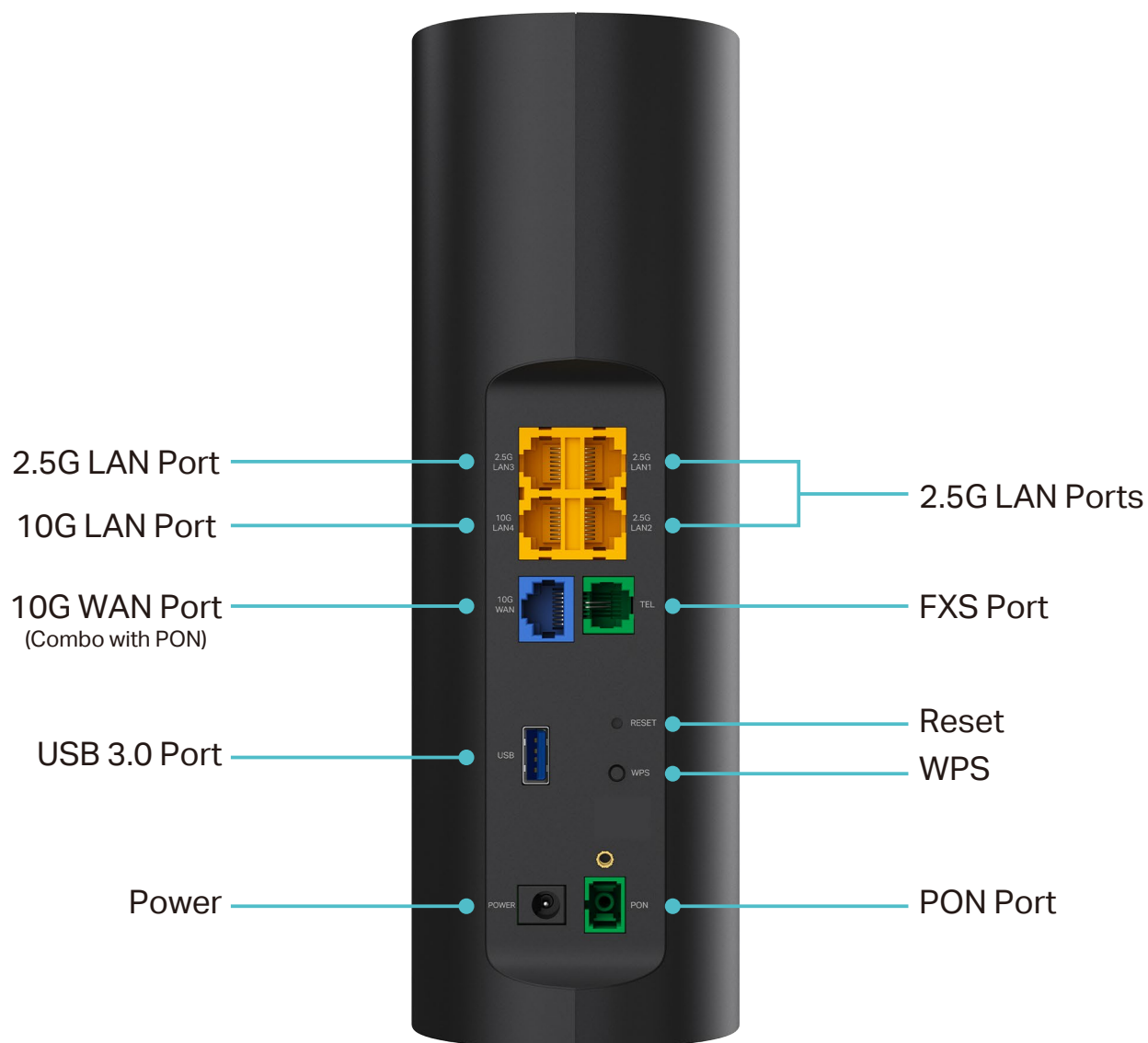
Network Topology



TP-Link Aginet Unified Cloud Solution for ISP



Hardware Description



Specifications

Hardware

- Interface
 - 1× XGS-PON Port,
 - 1× 10GE WAN (Combo with PON) Port,
 - 1× 10GE LAN Port,
 - 3× 2.5GE LAN Ports,
 - 1× FXS Port,
 - 1× USB 3.0 Port
- Power Adapter Input
 - 100-240V/50-60Hz
- Power Adapter Output
 - 12V/4.5A
- Button
 - WPS Button,
 - Reset Button
- Dimensions (W * D * H)
 - 7.8 × 3.1 × 9.4 in (198 × 80 × 238.2 mm)
- Antenna
 - Internal High-Performance antennas,
 - 4pcs 2.4G&5GHz dual-band antenna + 4pcs 6G Hz antenna
- Wireless Standards
 - IEEE 802.11ax/be (6 GHz),
 - IEEE 802.11a/n/ac/ax/be (5 GHz),
 - IEEE 802.11b/g/n/ax/be (2.4 GHz)
- Wireless Rate
 - 11520 Mbps on 6 GHz, 5760 Mbps on 5 GHz, 1376 Mbps on 2.4 GHz
 - support 5 ssid for every band (Primary/Guest/-Multi-1/Multi-2/MLO)
 - support 128 station every band
- XGS-PON
 - ITU-T G.9807.1, ITU-T G.988, Class E1
 - 1577nm downstream/1270nm upstream
 - 9.953Gbps downstream/9.953Gbps upstream
- Transmitter
 - DFB Laser
- Receiver
 - PIN-TIA
- Distance
 - 0 ~ 20Km Max
- 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
- Accessories
 - WI-FI7 XGS-PON Router XGB835v
 - Power Adapter
 - Ethernet Cable
 - Quick Installation Guide
 - Fiber Lock

Specifications

Software function

- **Internet**
Mode: Static IP Mode, DHCP Mode, PPPoE Mode, Bridge Mode
Internet Protocol: IPv4, IPv6
Service Type: Internet, IPTV, VoIP, TR069
- **SpeedTest**
OOKLA SpeedTest
PON DHCP - upload 9G, download 7.8G
EWAN DHCP - upload 9.3G, download 9.3G
TR143 SpeedTest
PON DHCP - upload 9G+, download 9G+
WAN DHCP - upload 9G+, download 8.5G+
- **Wireless Security**
WPA/WPA2/WPA3-PSK
- **Easymesh**
Support Wi-Fi EasyMesh® Specification
Support Easymesh V1/V2/V3/V4/V5 protocol
Support Multi-AP Onboarding
Support DPP Backhaul STA and Multi-AP Agent secure onboarding
- **Security**
Firewall & DoS Protection
Support IPv4 & IPv6 SPI (Stateful Packet Inspection) Firewall
Support DoS (Denial of Service) Protection: DoS (Denial of Service) Protection, DoS (Denial of Service) Protection
- **TCP-SYN-Flood Protection**
Access Control
allow or block specific client devices from accessing the network
- **Parental Control**
allow users to set up unique restrictions on internet access for each member of your family:
block inappropriate content
set daily limits for the total time spent online
restrict internet access to certain times of the day
- **Traffic management and Quality of Service (QoS)**
802.1Q VLANs
802.1p service prioritization
Q-in-Q tagging
Multiple VLANs
Rate limiting
DiffServ
Pre-defined QoS on service type
IPTV QoS
VoIP QoS
- **Management**
TAUC: support TR181 Datamodel through TR369
ACS (Auto Configuration Server) : support TR098, TR181 Datamodel through TR069
Aginet APP
Local Management: Web, telnet
Remote Management: https, ssh
- **VPN:**
VPN Server Protocol: OpenVPN, PPTP, IPSec
VPN Client Protocol: OpenVPN, PPTP