tp-link | Aginet



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 to22Gbps 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.

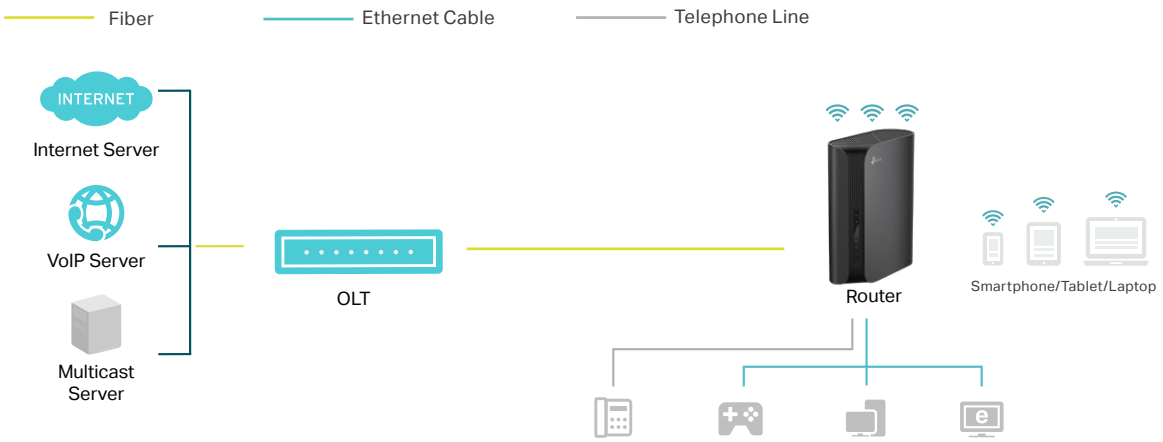
Multi-Gig Wired Connection

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.

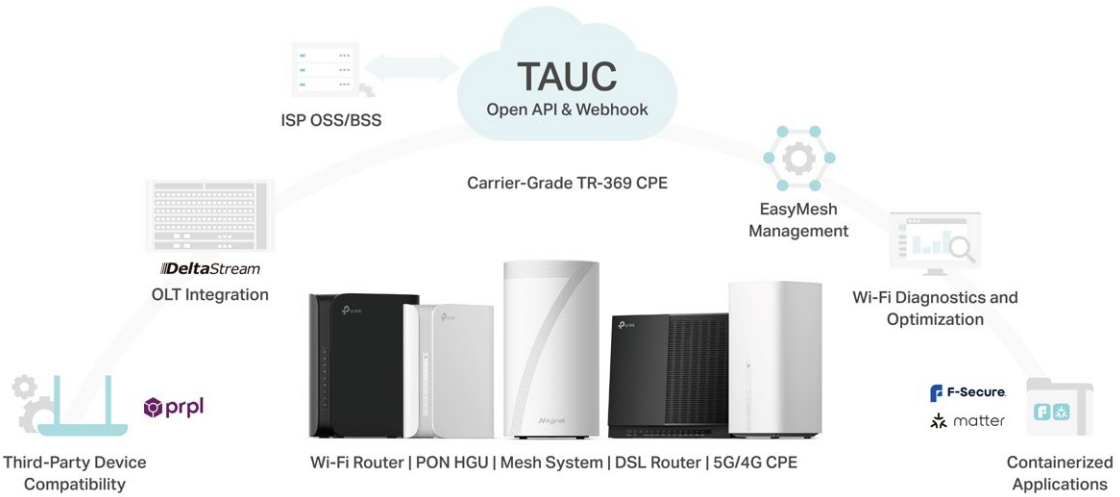
EasyMesh Compatible

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

Network Topology

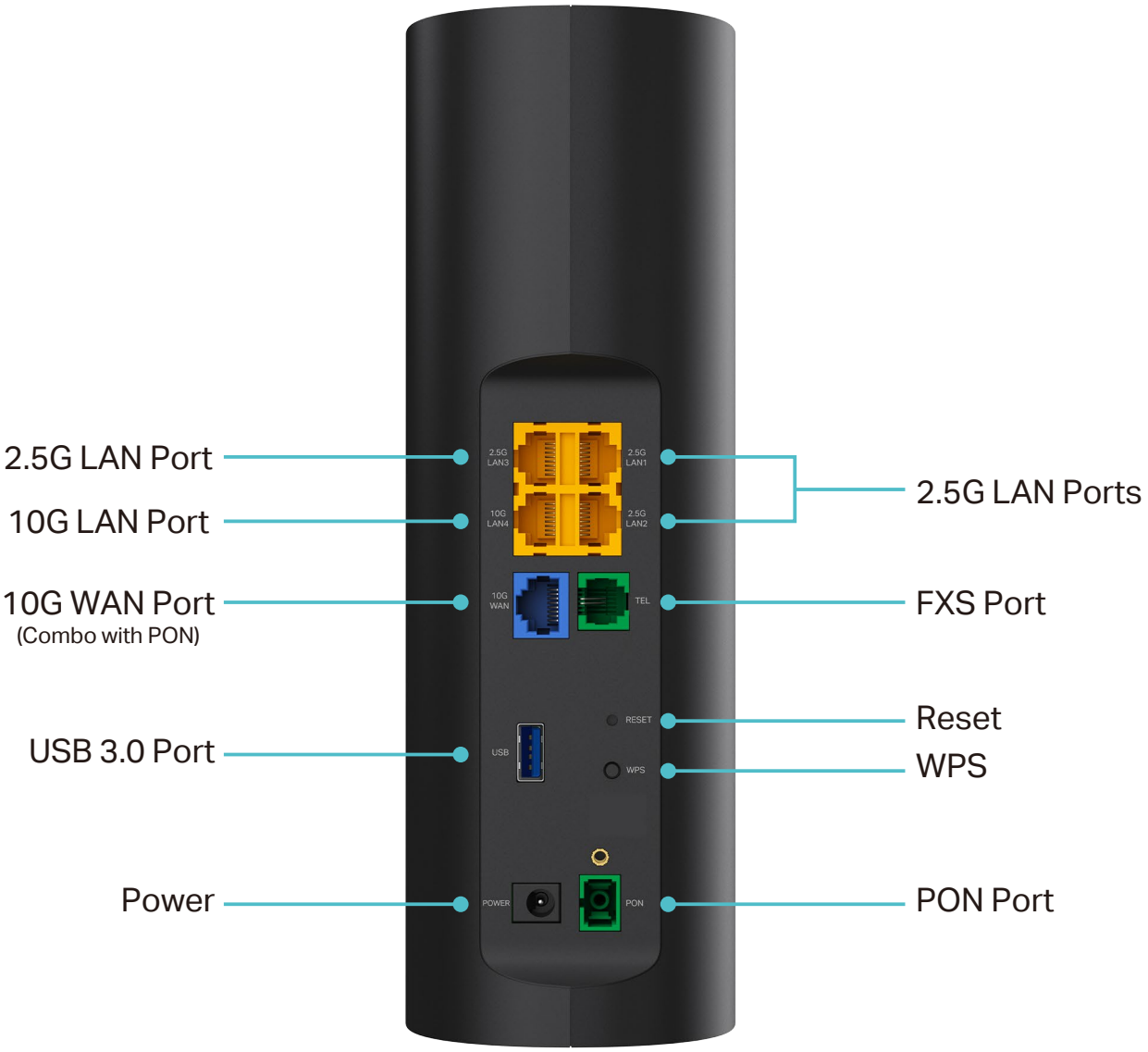


TP-Link Aginet Unified Cloud Solution for ISP



- Mesh Network Health Checkt
- App Store for Broadband Routers
- AI-Driven Alarm and Auto-Optimization
- Full Multi-Tenancy Capabilities

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