






PMG5617-T20B2

Dual-Band Wireless AC/N GPON HGU with 4-port GbE LAN

The Zyxel PMG5617-T20B2 Dual-Band Wireless AC/N GPON HGU with 4-port GbE LAN provides high-speed GPON internet access to meet the worldwide market requirements for triple-play services.

-  Supports Gigabit data access via passive fiber
-  Concurrent dual-band wireless circuit design
-  Remote management via OMCI and TR-069
-  Zyxel-developed OPAL for superior flexibility and a faster time-to-market

Specifications

System specifications

Wireless standard

- 802.11 b/g/n 2.4 GHz
- 802.11 a/n/ac 5 GHz

GPON compliance

- Complies ITU-T G.984.1/G.984.2/G.984.3/G.984.4/G.988 GPON standards
- DS/US speeds: 2.488/1.244 Gbps
- Wavelength: 1490 nm (DS) & 1310 nm (US)
- Physical distance reach to 20 km
- Dynamic Bandwidth Allocation (DBA)
- Configurable AES DS and FEC DS/US
- GEM supports Ethernet packet-GEM SAR

Ethernet (LAN) features

- Full duplex IEEE 802.3x
- MAC address learning
- IPv6 address transparent

Networking features

- IEEE 802.1d transparent bridge
- IEEE 802.1d basic spanning tree
- Static route/DNS route/policy route
- Static Routing, Dynamic Routing (RIP)
- DNS entry
- Dynamic DNS
- Internet Group Management Protocol (IGMP)
- OPAL firmware
- VLAN Group
- Interface grouping

VLAN functional specifications

- VLAN IEEE 802.1Q
- CoS IEEE 802.1p
- QinQ VLAN

QoS

- 802.1p priority
- SP/WRR/SP+WRR
- Broadcast storm control

WLAN

- Wireless Protected Setup (WPS)
- WEP data encryption (64/128 bit)
- WPA/WPA2/WPA3 (WiFi protected access)
- Supports multiple SSIDs (up to 4)

- Maximum TX power (EIRP)
 - 2.4 GHz ≤ 20 dBm
 - 5.15 GHz~5.25 GHz ≤ 23 dBm

Security

- Static Packet Inspection (SPI) firewall
- MAC/IP/URL addresses filtering

VoIP

- Voice functionality
 - Codec: G.711 a/u, G.722
 - DTMF tone: detection and generation
- Phone features
 - Internal call
 - T.30/T.38/G.711 fax mode, call waiting
 - Call forwarding (No condition, Busy, No answer)
 - Call transferring (Blind, Consult On Hold, Attendant)
 - Call hold/call retrieve
 - Three-way conference
 - Second call/adding an outgoing call
 - Switch between 2 active calls

Management

- Web (HTTP/HTTPS) /telnet (CLI)
- OMCI (G.988) /TR-069
- Firmware upgrade via FTP/TFTP/HTTP

USB

- File sharing

Hardware specifications

Wireless

- Two internal antennas (2.4 GHz)
- Two internal antennas (5 GHz)

Ethernet LAN

- Four 10/100/1000 Mbps Ethernet RJ-45 ports

VoIP

- One FXS RJ-11 ports (6P2C)

USB

- One USB 2.0 host

Button

- One power on/off
- One WLAN on/off button
- One WPS on/off push button
- One reset button

Status LEDs indicators

- Power x 1
- PON x 1
- Internet x 1
- WLAN 2.4G/WPS x 1
- WLAN 5G/WPS x 1
- USB x 1
- Phone x 1
- LAN x 4

Power consumption

- Power supply: DC 12 V/2 A
- Power consumption: max. 17 W

Physical specifications

- Item dimensions (WxDxH): 170 x 121 x 42 mm (6.69" x 4.76" x 1.65")
- Item weight: 283.5 g (0.63lb.)
- Packing dimensions (WxDxH): 192 x 226 x 62 mm (7.56" x 8.9" x 2.44")
- Packing weight: 600 g (1.32 lb.)

Environmental specifications

Operating environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% RH (non-condensing)

Storage environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% RH (non-condensing)

Certification

- CE

Package contents

- Power adapter
- Ethernet cable
- Phone cable
- Quick Start Guide
- Safety warning card

For more product information, visit us on the web at <https://service-provider.zyxel.com>

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