ZYXEL

PMG5323-B20B

Wireless N GPON HGU IAD with 4-port GbE Switch and RF Overlay

GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QoS) for delay-sensitive voice and video communications traffic. PMG5323-B20B is a GPON ONT that provides high-speed fiber access combines with residential gateway, VoIP and wireless features. It blends in the CATV infrastructure with attractive applications for subscribers.

Integrated Internet services through fiber optics

2.4 GHz 11n (2x2) for superior performance and coverage

Advanced QoS ensures quality of triple-play services

Provisioning and management through TR-069 and OMCI

RF overlay interface for CATV

Benefits

Integrated Internet services through fiber optics

The Zyxel PMG5323-B20B provides various integrated services through a single optical fiber for customers to support prevalent deployments of triple-play services such as data, video/high-definition television (HDTV), VoIP and interactive games.

2.4 GHz 11n (2x2) for superior performance and coverage

The Zyxel PMG5323-B20B features 802.11n technology to provide an ultimate solution for both speed and coverage. With 802.11n wireless data rates of up to 300 Mbps, the PMG5323-B20B provides stable, reliable wireless connections for high-speed data and multimedia applications. The 802.11n technology empowers the device to eliminate dead zones and to extend coverage while retaining backward compatibility with any IEEE 802.11 b/g/n Wi-Fi certified device.
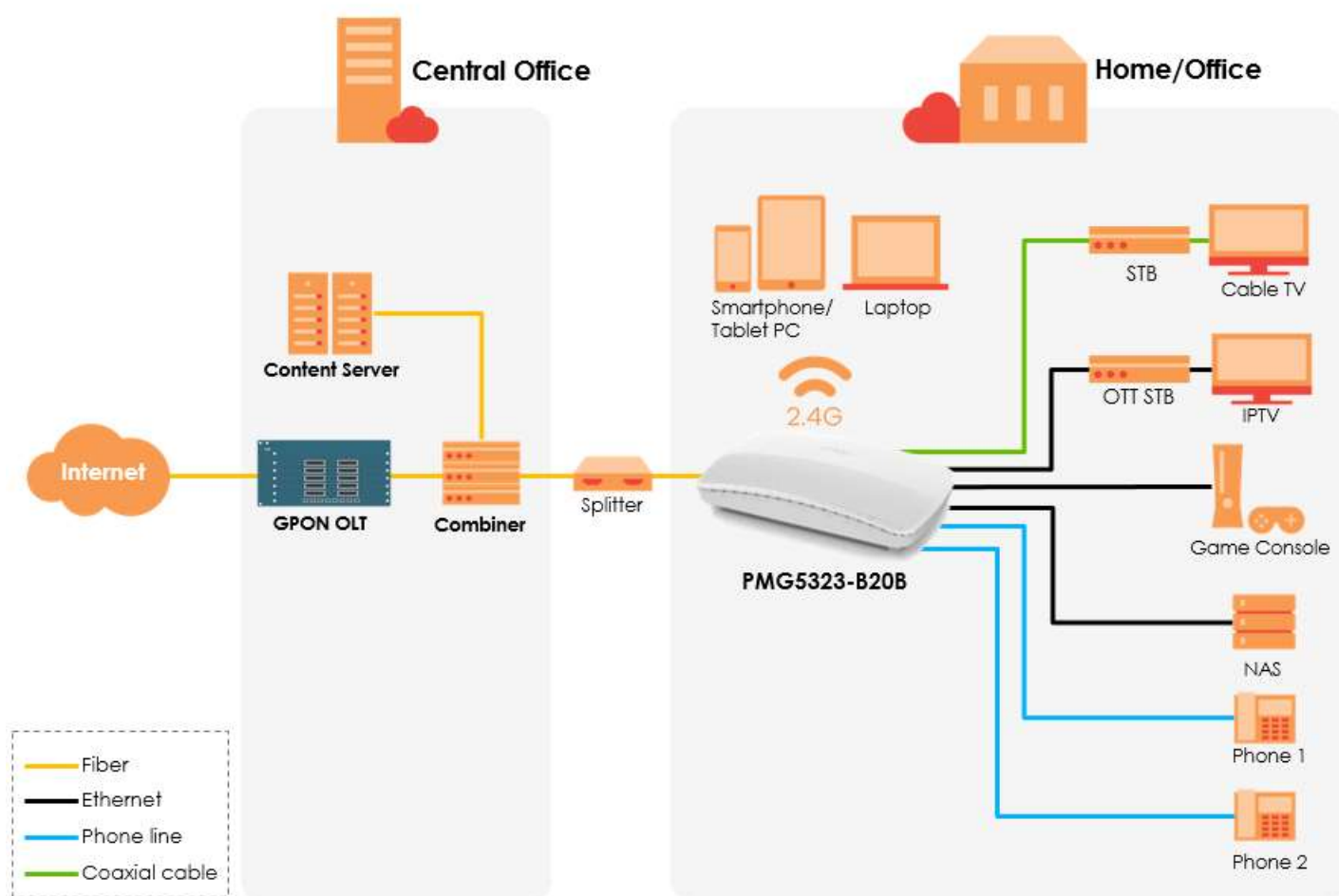
Advanced Quality of Service ensures quality of triple-play service

As higher bandwidth and greater efficiency of Ethernet cannot ensure effective delivery of high-quality voice, data and video across a GPON network, service providers can freely design their Quality of Service (QoS) policies and prioritize mission-critical services such as IPTV and VoIP based on their service plan offerings. This increases network efficiency and productivity to enable service providers to offer a real multi-play solution that meets the needs of residential users.

Offering a true triple-play service by cable operators

Not just a high-speed fiber ONT with Wi-Fi, the Zyxel PMG5323-B20B features standard RF overlay interface dedically designed for MSO. Cable operators provide premium quality services upon different media, different scenarios according to the infrastructure from a single box. No redundant investment and fast RoI and network flexibility.

Applications Diagram

Specifications

GPON Compliance

- Comply ITU-T G.984 GPON standard:
  - G.984.1 general characteristics
  - G.984.2 physical Media Dependent (PMD) layer specifications
  - G.984.3 transmission convergence layer specifications
  - G.984.4 ONT management and control interface specification
  - G.9854.5 Enhancement band
- Support DS/US transmission rate to 2.488 Gbps/1.244 Gbps
- Wavelength: 1490 nm downstream & 1310 nm upstream
- Comply with class B+ type PMD
- Physical distance reach to 20 km

RF Overlay

- Interface: F-type female connector, 75ohm
- Wavelength: Working at 1550 nm, -8 to +2dBm range
- RF output: 54~1002MHz range.
- RF level > 18dBm at 4.3% OMI
- CNR > 46dB, CSO > 60dBc, CTB > 65dBc
- RF return loss > 14dB

Voice Functionality

- Codecs: G.711 a/u, G.723, G.729
- DTMF tone: Detection and generation

Phone Features

- Internal call
- T.38 FAX relay
- Call waiting
- Call forwarding: Unconditional/Busy/No Answer
- Call transferring: Attendant, semi-Attendant
- Call Toggle
- Three-way conference

VLAN/QoS

- Support flexible traffic classification
- Port-based VLAN/802.1Q
- DSCP/802.1P

Wireless

Wireless

- WEP data encryption (64/128 bit)
- WPA2-PSK with TKIP & AES security
- Multiple SSID (up to 4)
- VLAN per SSID

Router/Bridge Features

- IGMP v1/v2/v3
- Network Address Translation (NAT)/Network Address Port Translation (NAPT)
- DHCP
- DNS

Security

- Generic packet filter
- Firewall/DMZ

USB

- USB 2.0 host, type A
- Support USB disk / USB flash
- Built-in FTP server for file sharing

UPS

- Comply with G-988 standard
- 2x4 connector for external UPS
- 4 alarm on battery, battery failure, battery missing and battery low

Interfaces

- PON / WAN:
  - One Giga optical interface (SC/ APC)
- POTS/ VoIP: Two RJ-11 FXS phone ports
- LAN / Ethernet: Four 10/100/1000 Mbps RJ-45 ports
- RF / CATV: One F-type female connector for CATV
- WPS / Wi-Fi: One tact switch for WPS On-Off
- RESET: A tact switch for reset/restore factory default
- USB: Two USB 2.0 hosts for file storage
- UPS: 8-PIN connector for Battery backup
- PWR: DC jack for 12 V DC 1.5 A power input
- Power switch: Push-push button power On-Off
- LEDs indicators:
  - ■ PWR ■ BATT ■ ALM ■ WAN ■ DATA
  - ■ LAN ■ PHONE ■ USB ■ Wi-Fi ■ COAX

Environmental Specifications

Operating Environment

- Temperature: 0°C to 40°C
  - Humidity: 10% to 90% RH (Non-condensing)

Storage Environment

- Temperature: -30°C to 70°C
- Humidity: 10% to 95% RH (Non-condensing)

Certification

- EMC: CE
- Safety: CE LVD

Package Contents

- Wireless router
- Power adapter
- Ethernet cable
- RJ-11 cable
- Quick start guide

* The maximum wireless data transfer rate is derived from IEEE Standard 802.11 specifications. Actual data transfer rate will vary from network environment including: distance, network traffic,

For more product information, visit us on the web at www.zyxel.com

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