![ZyXEL logo]

Wireless N GPON HGU with 4-port GbE Switch

- **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**

Benefits

Integrated Internet services through fiber

The ZyXEL PMG5318-B20C Wireless N GPON HGU with 4-port GbE Switch 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 PMG5318-B20C 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 PMG5318-B20C 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 Wi-Fi certified device.

Advanced Quality of Service (QoS) ensures quality of triple-play services

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

Provisioning and management through TR-069 along with ONT Management and Control Interface (OMCI)

The ZyXEL PMG5318-B20C can be connected to the GPON OLT to provide network operators with management and provision functions that support OMCI and TR069 management functions as well. As a result, the operation and maintenance of the PMG5318-B20C are extremely easy and efficient.

PMG5318-B20C
Wireless N GPON HGU with 4-port GbE Switch

PMG5318-B20C
Wireless N GPON HGU with 4-port FE Switch

System 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
• 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
• Support Dynamic Bandwidth Allocation (DBA)
• GPON Encapsulation Method (GEM) supports Ethernet packet
• Supports GEM header removal/insertion and data extraction/segmentation (GEM SAR)
• Configurable AES DS and FEC DS/US
• Support up to 8 T-CONs each with priority queues (US)

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

Wireless
• IEEE 802.11n 2.4 GHz with up to 300 Mbps data rate
• Wireless Protected Setup (WPS)
• WEP data encryption (64/128 bit)
• WPA/WPA2 (Wi-Fi Protected Access)
• Multiple SSID (up to 4)

Voice Functionality
• Codecs: G.711 a/u, G.723, G.726
• DTMF tone: detection and generation

Phone Features
• Internal call
• T.38 FAX relay, T30
• Call waiting
• Call forwarding (No condition, Busy, No answer)

• Call transferring (Blind, ConsultOnHold, Attendant)
• Call hold/call retrieve
• Three-way conference
• Second call/Adding an outgoing call
• Switch between 2 active calls

Router/Bridge Features
• IGMP v1/v2
• Network Address Translation (NAT)/Network Address Port Translation (NAPT)
• DHCP
• DNS

Security
• Generic packet filter
• Firewall/DMZ

Hardware Specifications
• WAN: One Giga optical interface (SC/APC)
• LAN: One 10/100/1000 auto MDI/MDI-X RJ-45
• USB: Two USB 2.0
• Reset: A tact switch. One reset/restore factory default button
• Power switch:
  Push-push type button
• LEDs indicators:
  Power
  PON
  Internet
  LAN 1~4
  Phone 1~2
  USB
  WiFi/2.4G
• Power supply: 12V/2A

Physical Specifications
• Item dimensions(WxDxH):
  244 x 161 x 41mm
• Item weight: <500g

Environmental Specifications
Operating Environment
• Temperature: 0°C to 45°C (32°F to °F)
• Humidity: 10% to 90% RH (Non-condensing)
Storage Environment
• Temperature: -40°C to 70°C (-°F to 140°F)
• Humidity: 10% to 95% RH (Non-condensing)

Certification
• EMC: CE
• Safety: CE LVD