



- VDSL2 High-speed Internet access
- 802.11n Wireless access
- TR-069 remote management support
- 3G backup support

## Very High-speed 802.11n VDSL2 Wireless Gateway with USB

### Benefits

#### VDSL2 High-speed Internet access

The ZyXEL VMG1312-B10B Wireless N VDSL2 4-ports gateway with USB provides VDSL2 of up to profile 17a with data rates of up to 100 Mbps in downstream direction and 45 Mbps upstream. The VDSL2 technology supports the widespread deployment base of triple-play services such as voice, video, data, high-definition television (HDTV) and interactive gaming; it also enables operators and carriers to gradually, flexibly and cost efficiently upgrade the existing xDSL-infrastructure.

#### 802.11n Wireless access

With the 802.11n technology built-in, the ZyXEL VMG1312-B10B provides the ultimate solution for speed and coverage. With data rates of up to 300 Mbps, it provides stable, reliable wireless connections for high-speed data and multimedia delivery. It eliminates dead zones and extends coverage by employing the latest IEEE 802.11n technology, and it is backward compatible with any IEEE 802.11 b/g/n-certified device.

#### TR-069 remote management support

With compliance to the TR-069 standard management specifications, service providers are able to manage and configure client devices remotely without manual intervention from end-users. This unique feature not only offers users with true "plug-and-play" experience, but also reduces the complexity of deployment and therefore saves operating and maintenance costs for service providers.

#### 3G backup support

With the built-in USB interface for a 3G dongle, the ZyXEL VMG1312-B10B can offer home users the flexibility to share either a 3G WAN or a xDSL connection with all users in their network when either connection is available without any configuration required.

**VMG1312-B10B**  
Wireless N VDSL2  
4-ports Gateway  
with USB





## VMG1312-B10B

### Wireless N VDSL2 4-ports Gateway with USB

## Specifications

### System Specifications

#### VDSL Compliance

- ITU-T G.993.1 VDSL1 Annex A
- ITU-T G.993.2 VDSL2 Annex A, band plan 997, 998
- Support VDSL profile: 8a/b/c/d, 12a/b, and 17a
- Rate adaption
- Seamless Rate Adaption (SRA)
- INP: up to 16 symbols
- PTM mode
- G.INP
- PhyR configurable

#### ADSL Compliance

- ITU-T G.992.1 (G.dmt) Annex A compliant
- ITU-T G.992.2 (G.lite) Annex A compliant
- ITU-T G.992.3 (ADSL2) Annex A compliant
- ITU-T G.992.5 (ADSL2+) Annex A compliant
- Reach-Extended ADSL (RE ADSL)
- Seamless Rate Adaption (SRA)
- Support VC-based and LLC-based multiplexing

#### WLAN

- IEEE 802.11 b/g/n compliance
- Frequency: 2.4 GHz
- Data rate: 300 Mbps
- WPA/WPA-PSK, WPA2/WPA2-PSK
- WEP data encryption 64/128 bit
- Wireless Protected Setup (WPS)
- Multi SSID (up to 4) and hidden SSID support

#### USB

- File sharing
- 3G backup support

#### Bridge/Router

- PPPoE (RFC2516)
- PPPoA (RFC2364)
- DHCP client/server/relay

- DNS proxy
- Dynamic DNS
- RIP I/RIP II supported
- UPnP
- Static/policy route
- QoS classification route

#### Firewall/Security

- PAP and CHAP support
- MS-CHAPv1 and v2 support
- Stateful Packet Inspection (SPI)
- DoS Attack Prevention
- Parental Control

#### QoS

- Queuing and scheduling
- Queue management

#### Management

- Web GUI
- Command Line Interpreter (CLI) via SSH or Telnet
- Firmware upgrade via Web/FTP/TFTP
- DSL forum TR-069, 098
- DSL forum TR-064, TR-111
- Configurable access control for remote management

### Hardware Specifications

- WAN: One RJ-11 port for VDSL2/ADSL2+ over POTS
- LAN: Four Fast Ethernet ports
- WLAN: Two internal 2 dBi antennas
- USB: One for USB2.0 host interface
- WLAN/WPS button: One real button for WLAN on/off and WPS configuration
- Reset/Restore button: One real button for restore factory default settings
- Status LED indicator: Power, Internet, Ethernet, WLAN, DSL, USB

### Physical Specifications

- Item dimensions (WxDxH): 170 x 165 x 61 mm (6.69" x 6.5" x 2.4")
- Item weight: 159 g (0.35 lb.)
- Packing dimensions (WxDxH): 226 x 213 x 81 mm (8.9" x 8.39" x 3.19")
- Packing weight: 631 g (1.39 lb.)

### Environmental Specifications

#### Operating Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 20% to 95% RH (Non-condensing)

#### Storage Environment

- Temperature: -30°C to 60°C (-22°F to 140°F)
- Humidity: 20% to 95% RH (Non-condensing)

### Certification

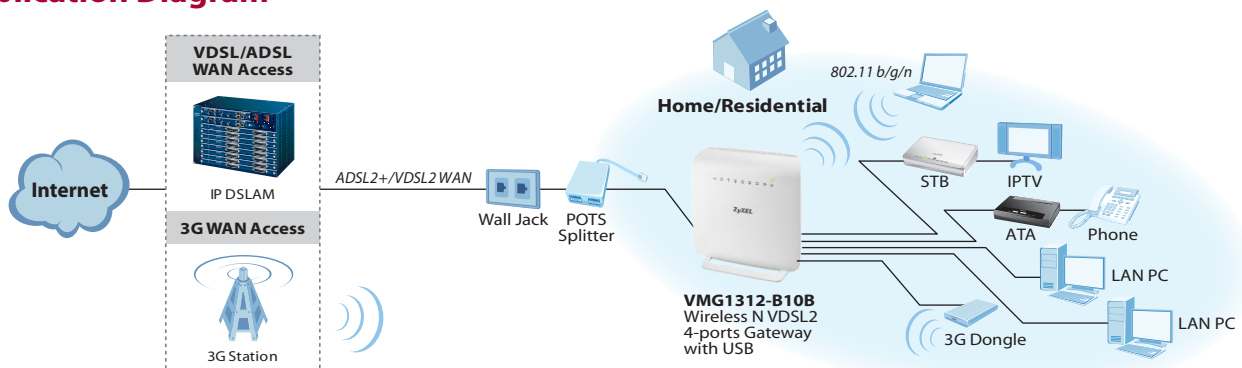
#### EMC

- EN55022 Class B
- EN61000-3-2, EN61000-3-3

#### Safety

- EN60950-1
- IEC60950-1

## Application Diagram



For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)



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