ZyXEL

- **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 VMG1312-B Series 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 VMG1312-B Series 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 VMG1312-B Series 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-B Series

Wireless N VDSL2 4-port Gateway with USB

VDSL2   TR-069   802.11 n
300 Mbps   3G Backup

Specifications

System Specifications

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

ADSL Compliance
- ITU-T G.992.1 (G.dmt) compliant
- ITU-T G.992.2 (G.lite) compliant
- ITU-T G.992.3 (ADSL2) compliant
- ITU-T G.992.5 (ADSL2+) 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-064, 069, 098, 111
- Configurable access control for remote management

Hardware Specifications

- WAN:
  - One RJ-11 port (VMG1312-B10A) for VDSL/ADSL2+ over POTS
  - One RJ-45 port (VMG1312-B30A) for VDSL/ADSL2+ over ISDN
- LAN: Four Fast Ethernet ports
- WLAN: Two internal 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, Ethernet, DSL, Internet, WLAN/WPS, USB

Physical Specifications
- Item dimensions (WxDxH): 186 x 121 x 39 mm (7.32" x 4.76" x 1.54")
- Item weight: 245 g (0.54 lb.)
- Packing dimensions (WxDxH): 300 x 195 x 50 mm (11.81" x 7.68" x 1.97")
- Packing weight: 540 g (1.19 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)
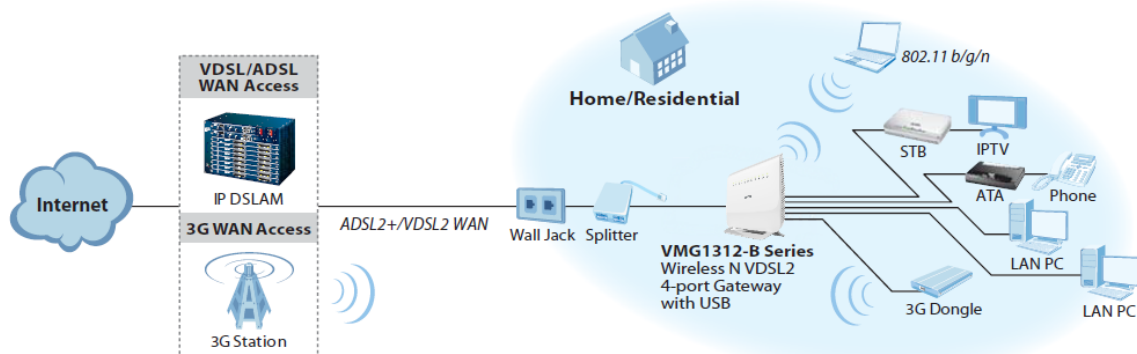- Humidity: 20% to 95% RH (Non-condensing)

Certification
- EMC: CE, FCC
- Safety: CE

Product Description
- VMG1312-B10B: Wireless N VDSL2 4-port Gateway with USB over POTS
- VMG1312-B30B: Wireless N VDSL2 4-port Gateway with USB over ISDN

Application Diagram

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