**Benefits**

**VDSL2 High-speed Internet access**

The VMG1312-B10A 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-B10A 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-B10A 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.
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 adaptation
- Seamless Rate Adaption (SRA)
- INP: up to 16 symbols
- PTM mode
- G.INP
- PhyR configurable

ADSL Compliance
- 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)
- 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
- Printer server
- File sharing
- 3G backup support

Bridge/Router
- PPPoE (RFC2516)
- PPPoA (RFC2364)

DHCP client/server/relay
- DNS proxy
- Dynamic DNS
- RIP I/II and 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
- 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
- Wireless Protected Setup (WPS)
- Multi SSID (up to 4) and hidden SSID support
- Printer server
- File sharing
- 3G backup support
- PPPoE (RFC2516)
- PPPoA (RFC2364)

Physical Specifications
- Item dimensions (WxHxD):
  - 186 x 121 x 39 mm (7.32” x 4.76” x 1.54”)
  - 300 x 195 x 50 mm (11.81” x 7.68” x 1.97”)
- Item weight: 245 g (0.54 lb.)
- 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
- EN55022 Class B
- EN61000-3-2, EN61000-3-3

Safety
- EN60950-1
- IEC60950-1

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Rear Panel

Application Diagram

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

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