The VMG4825-B10A provides high-speed VDSL Internet access to meet the worldwide market requirements of triple-play services. This model also features built-in 4x4 802.11ac WLAN which brings relief to those troublesome wirings. Additionally, it is designed with dual WAN function, suitable for xPON or LTE users. Users also could leverage the USB interface for file sharing.

Benefits

CAF II Performance Testing Support
The VMG4825-B10A supports optimized TR-143 protocol to facilitate FCC mandated CAF II Performance Testing.

Increased bandwidth and flexible range
The advanced VDSL2/ADSL2+ bonding feature enables service providers to increase bandwidth and to extend coverage. With the available copper lines, service providers can take advantage of VDSL2/ADSL2+ bonding to not only provide higher speeds to the existing subscribers, but also improve the experience for users who are far away from the cabinet with stable, sufficient bandwidth regardless of the distance.

Combo WAN for simplified ISP logistics
With the ZyXEL VMG4825-B10A, there's no need for service providers to invest on or replace new CPEs at customer sites as customers migrate from ADSL2+ or VDSL2 to PON or LTE. All they need to do is to unplug the DSL line, and then plug the Ethernet cable to the Ethernet WAN port as the existing CPE VMG4825-B10A terminates the IP connections via its WAN interface. In most cases, users can still connect with the original CPE to avoid replacing the unit due to different physical connections.

VMG4825-B10A
Dual-Band Wireless AC/N VDSL2 Bonding Combo WAN Gigabit Gateway
802.11ac technology for ultimate performance and coverage

The ZyXEL VMG4825-B10A features 802.11ac technology to provide the ultimate solution of both speed and coverage. With 802.11ac wireless data rates of up to 1.7 Gbps*, the VMG4825-B10A provides stable, reliable wireless connections for high-speed data and multimedia applications. The 802.11ac technology empowered the device to eliminate dead zones and extend coverage while retaining backward compatibility with all Wi-Fi certified devices.

Maximizing bandwidth utilization with MU-MIMO

With more and more Wi-Fi devices blend into people’s life, the ZyXEL VMG4825-B10A is ready with Multi-User Multiple-Input Multiple Output (MU-MIMO) functions to increase bandwidth utilization over Single-User Multiple-Input Multiple Output (SU-MIMO) as well as to improve throughputs in dense wireless environments. It not only increases efficiency, but also allows addition of new clients without sacrificing system throughput.

TR-069/TR-181 issue-2 remote management

The ZyXEL VMG4825-B10A incorporates the TR-069/TR-181 standard management specifications for service providers to manage and configure client devices remotely without any end user intervention. This feature offers a true “plug-and-play” experience while reducing deployment complexity.

Application Diagram
Specifications

System Specifications
Wireless Standard
• IEEE 802.11b/g/n 2.4 GHz
• IEEE 802.11a/n/ac 5 GHz

VDSL and ADSL Compliance
• VDSL:
  • G.993.1 VDSL
  • G.993.2 VDSL2, Annex A
  • Support VDSL profiles: 8a/b/c/d, 12a/b and 17a
• ADSL:
  • G.992.1 (G.dmt)
  • G.992.2 (G.lite)
  • ANSI T1.413 compliant
  • G.992.3 (ADSL2)
  • G.992.5 (ADSL2+)
  • G.INP support
  • G.vector support

Router/Bridge Features
• IEEE 802.1D transparent bridge & basic spanning tree
• PPPoE (RFC 2516)
• PPPoA (RFC 2364)
• MAC encapsulation routing/IPoE
• Network Address Translation (NAT)
• NAT virtual server (port forwarding)
• DHCP client/server/relay with DHCP option 43/60/61/125
• DNS proxy/dynamic DNS
• Static/Policy route
• IGMP v1, v2, v3
• IPv4/IPv6

Wireless
• Wireless Protected Setup (WPS)
• WMM
• WEP data encryption 64/128 bit
• WPA2-PSK with TKIP & AES security type
• Multi SSID: up to 4
• MU-MIMO support

VLAN/QoS
• 802.1Q VLAN tagging/un-tagging
• Support flexible traffic classification
• Support VLAN staking (QinQ)

Firewall & Security
• Generic packet filter
• DoS attack prevention
• Parental control

USB
• File sharing

Management
• Web/HTTP: 3 level log-in
• CLI (Command Line Interpreter) via SSH or Telnet
• Firmware upgrade via Web/TFTP/FTP/TR-069
• Configuration backup/update/restore default via Web
• Configurable access control for remote management (interface and/port number)
• Trust domain (support trust domain list)
• NTP (Internet time automatically synchronize)
• DSL forum TR-069, TR-098, TR-064, TR-111 and TR-181 i2
• SNMP v1, v2
• Rom-D support
• UPnP port forwarding rules on page
• Configuration filter by login privileges

Hardware Specifications
• WAN: One 10/100/1000 Mbps Ethernet port RJ-45 (8P8C)
• Wireless:
  • Two internal 5 dBi antennas (2.4 GHz)
  • Four internal 5 dBi antennas (5 GHz)
• DSL: One RJ-14 (6P4C)
• Ethernet: Four 10/100/1000 Mbps Ethernet ports RJ-45 (8P8C)
• USB: One USB 2.0 host
• Button:
  • One reset button
  • One WPS on/off switch button
• Status LEDs indicators:
  • Power/System
  • DSL 1 - 2
  • LAN 1 - 4
  • WAN
• WLAN: 2.4G/WPS
• WLAN: 5G/WPS
• Internet
• USB
• Power supply: 12V DC 3A
• Power consumption: 12V DC 3A

Physical Specifications
• Item dimensions (WxDxH):
  42 - 59 x 218 x 281.2 mm
  (1.65" - 2.32" x 8.58" x 11.06")
• Item weight: 0.845 kg (1.86 lb)
• Packing dimensions (WxDxH):
  525 x 488 x 446 mm (20.66" x 19.21" x 17.55")
• Packing weight: 1.51 kg (3.32 lb)

Environmental Specifications
Operating Environment
• Temperature: 0°C to 40°C (32°F to 104°F)
• Humidity: 10% to 90% (Non-condensing)

Storage Environment
• Temperature: -30°C to 70°C (-22°F to 158°F)
• Humidity: 10% to 95% (Non-condensing)

Certification
• FCC, CSA

Package Contents
• Wireless router
• Power adapter
• Ethernet cable
• RJ-14 phone 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, building site materials/construction, interference from other wireless devices, and other adverse conditions.

Rear Panel

3