

ZYXEL



VMG4005-B50B

VDSL2 17a Bonding and 35b Single Line Bridge Modem/Router

The Zyxel VMG4005-B50B is a VDSL2 pair-bonding modem capable of up to 17a bonding speeds at 200Mbps downstream and 100Mbps upstream as well as profile 35b of up to 300Mbps for single-pair broadband services. Available with the bridge and router modes, the Zyxel VMG4005-B50B VDSL2 pair-bonding modem ensures smooth communications from the central office to remote subscribers over the service provider's existing copper network.

The Zyxel VMG4005-B50B VDSL2 pair-bonding modem extends coverage and enhances performance for exceptional user experiences while service providers can manage and maintain the Internet connections with TR-069 to monitor and manage the modem functions. Subscribers can take advantage of the increased bandwidth for broadband applications like Internet browsing, online gaming, video streaming and Internet voice calling.

Benefits

CAF II Performance Testing Support

The Zyxel VMG4005-B50B supports optimized TR-143 protocol to facilitate FCC mandated CAF II Performance Testing.



VDSL2 17a Bonding technology allows ISPs to double the speed of their existing customer connection



VDSL2 supports super vectoring up to profile 35b



Auto provisioning and remote management through TR-069



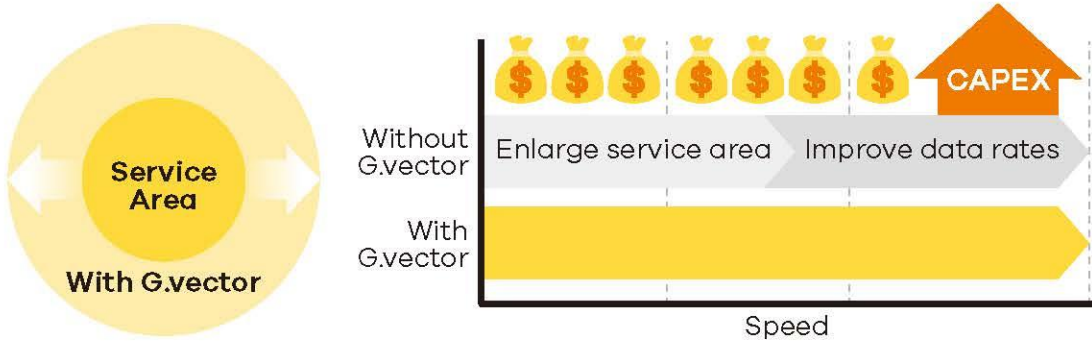
Embedded router/bridge mode



Remote throughput testing with TR-143

Bonded VDSL2 with G.vector

The VMG4005-B50B supports VDSL2 bonding with vectoring of up to profile 17a and 35b. The vectoring support reduces cross-talk to increase performance and range by up to 150% for operators.



Comprehensive Routing with IPv6, QoS and Firewall

Zyxel offers excellent routing capabilities designed to meet service provider needs. The Zyxel VMG4005-B Series VDSL2 17a Bonding and 35b Single Line Bridge continues this legacy with full IPv4 support, IPv6/IPv4 Dual Stack and IPv6 Rapid Deployment (RD) for a strong foundation to implement advanced features including quality of service (QoS) functionality to categorize incoming and outgoing traffics in addition to a stateful packet inspection (SPI) firewall for end-user security.

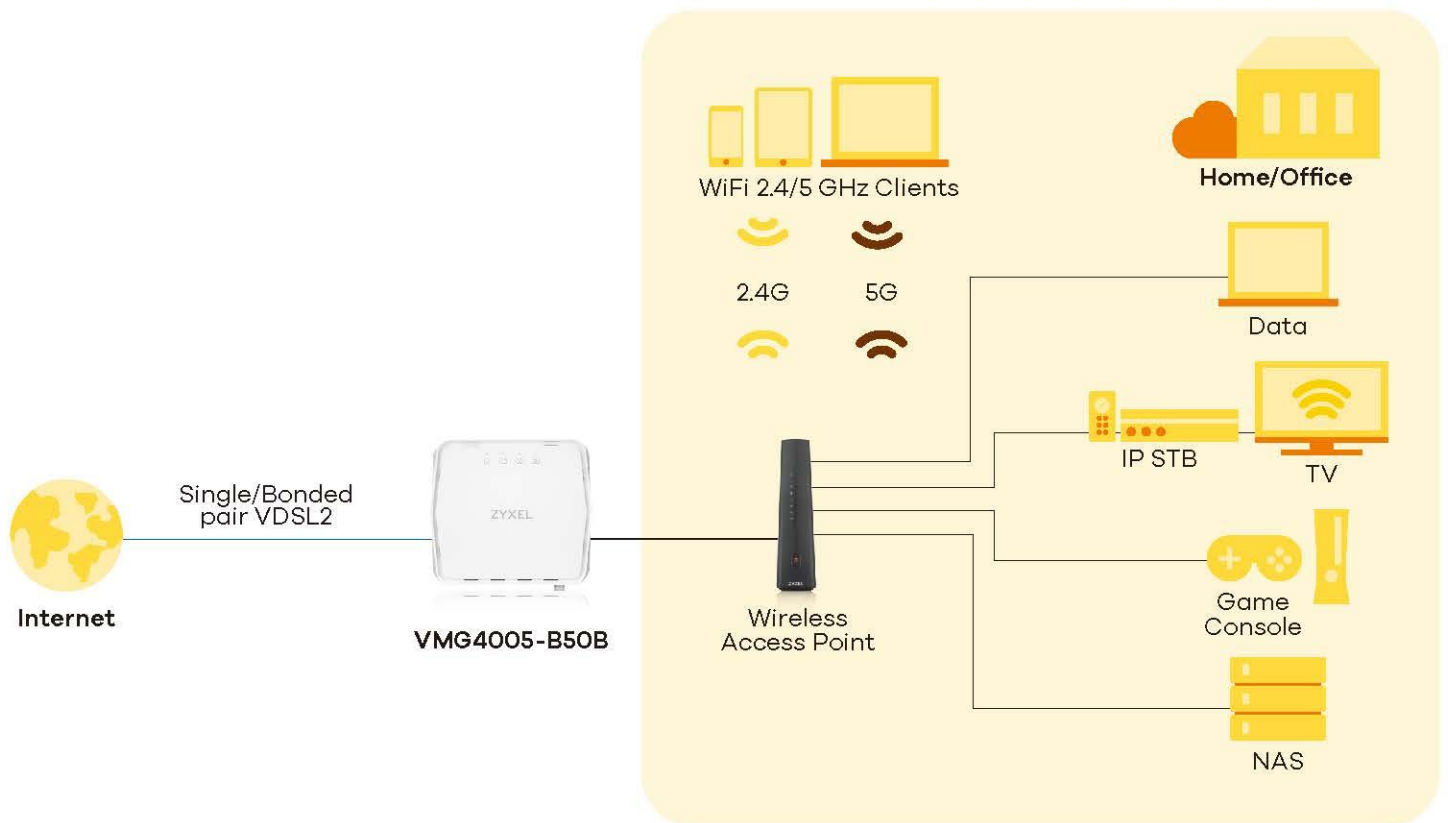


TR-069 remote management

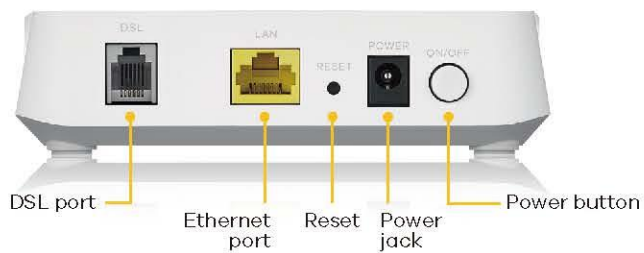
With TR-098/TR-181 data model for TR-069 standard management specifications, service providers are able to manage, configure and diagnose the client devices remotely without manual intervention of subscriber. This unique feature offers a true "plug-and-play" experience and reduces the complexity of deployment, therefore saving operation and maintenance costs for service providers.



Application Diagram



Interface description



Specifications

System Specifications

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

Management

- Web/HTTP: 3 level log-in
- CLI (Command Line Interpreter) via SSH or Telnet
- Firmware upgrade via Web/TFTP/FTP/TR069 RPC method
- Text based configuration (XML based)
- 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, TR181
- SNMP v1, v2
- Rom-D support
- Session login.(for multiple user configuration with login privilege.)
- Configuration filter by login privileges

Firewall & Security

- Generic packet filter
- DoS attack prevention
- Parental control

VLAN/QoS

- 802.1q VLAN tagging/un-tagging
- Support flexible traffic classification

Hardware Specifications

VDSL:

- G.993.2 VDSL2, Band 997, 998, over POTS
- Support VDSL profiles: 8a/b/c/d, 12a/b, 17a, and 35b
- G.vector

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

LAN

- One 10/100/1000 Mbps Ethernet RJ-45 ports

LED indicators

- Power
- VDSL#1
- VDSL#2
- LAN

Button

- Power On/Off
- Reset

Power Consumption

- 12 V DC/1 A

Physical Specifications

- Item dimensions (WxDxH): 130 x 120 x 32 mm (5.11" x 4.72" x 1.25")
- Item weight: 173 g (0.38 lb.)
- Packing dimensions (WxDxH): 234 x 140 x 38.5mm (9.21" x 5.51" x 1.51")
- Packing weight: 492 g (1.08 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/IC

Package Contents

- VMG4005-B50B
- Power adapter
- Ethernet cable
- Phone cable
- Quick start guide

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

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