# ZYXEL

# VMG4005-B Series

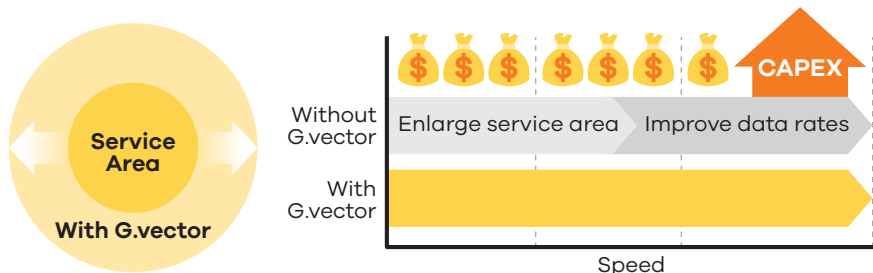## VDSL2 17a Bonding and 35b Single Line Bridge

The Zyxel VMG4005-B Series is a VDSL2 17a Bonding and 35b Single Line Bridge is a VDSL bonding bridge which provides excellent premium-class line speeds of up to 200Mbps with 17a bonding or 300Mbps with 35b single line for broadband services to extend the coverage and performance for enhanced user experience. For ISP/Telco needs, the VMG4005-B Series supports rate and line status monitoring and management while users can enjoy not only high-speed VDSL services, but also broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier than ever.

## Benefits

### Bonded VDSL2 with Vector

The Zyxel VMG4005-B Series VDSL2 17a Bonding and 35b Single Line Bridge supports VDSL2 bonding with vectoring of up to profile 17a and 35b. Vectoring supports reduce cross-talk for up to 150% for improved performance and range for operators.

Service Area

With G.vector

Without G.vector — Enlarge service area — Improve data rates

With G.vector

CAPEX

Speed

- VDSL2 17a Bonding technology allows ISPs to double the speed of their existing connection for customers

- VDSL2 supports super vectoring of up to profile 35b

- Metallic Line Testing (MELT) functionality, TR-286 standard compliant

- Auto provisioning and remote management through TR-069

- OPAL — Zyxel OPAL firmware offers better flexibility and faster time-to-market

- Responsive Web design and intuitive user interface

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## 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.
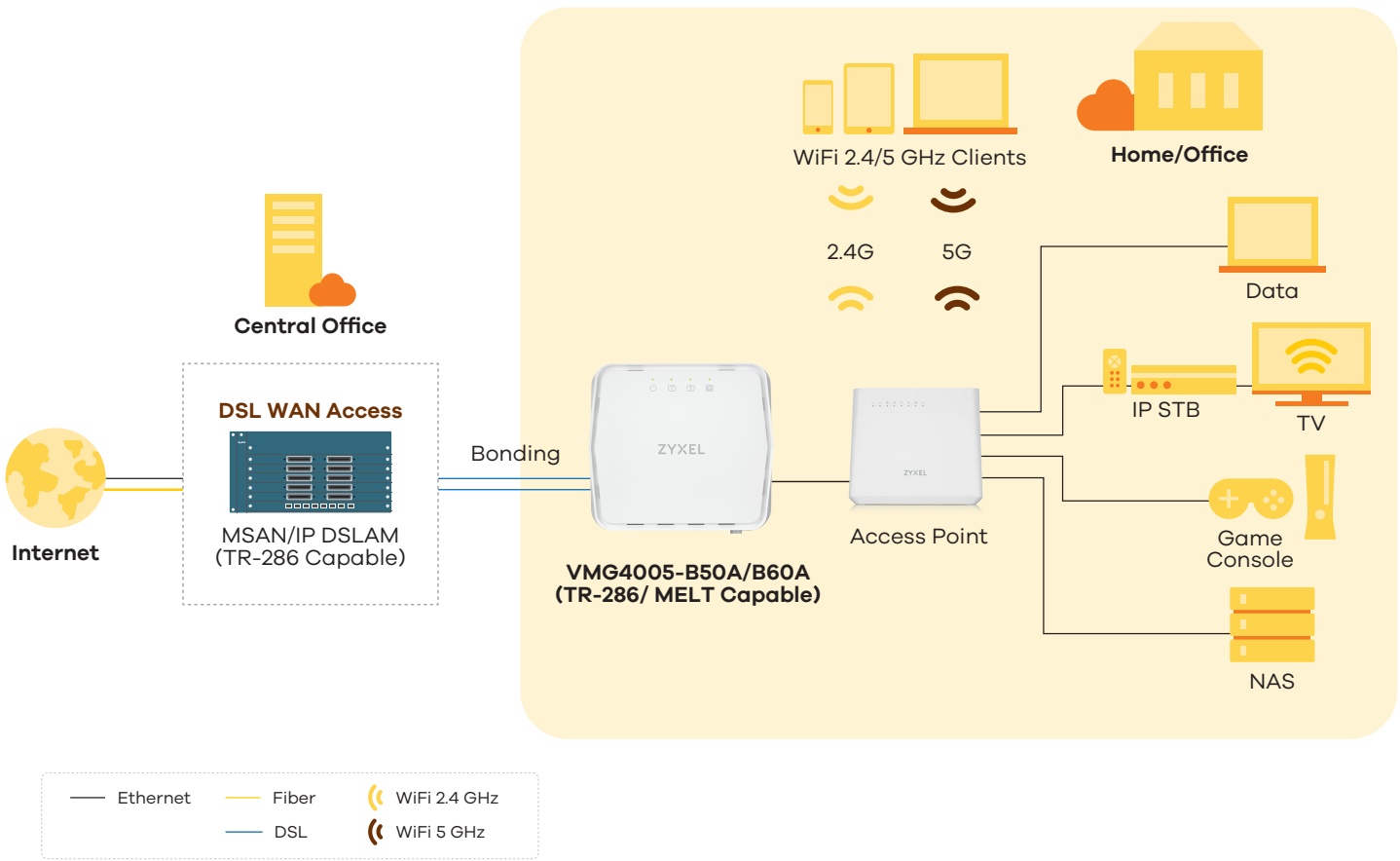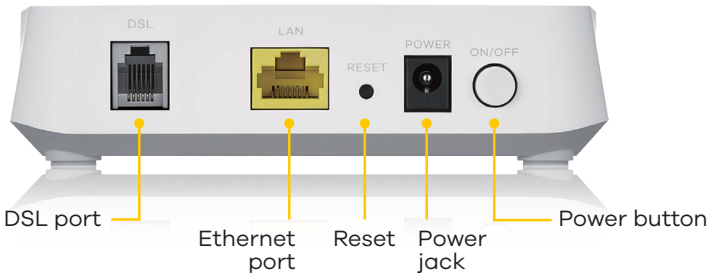
## TR-069 remote management

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

# Application Diagram



| | | | |
|---|---|---|---|
| —— Ethernet | —— Fiber | )) WiFi 2.4 GHz | |
| —— DSL | | )) WiFi 5 GHz | |

# Interface description



DSL port   Ethernet port   Reset   Power jack   Power button

# Specifications

## System Specifications

### Bridge Features
- IEEE 802.1D transparent bridge & basic spanning tree
- PPPoE (RFC 2516)
- PPPoA (RFC 2364)
- MAC Encapsulation Routing / IPoE
- DHCP client/server/relay with DHCP option 43/60/61
- IPv6: Dual Stack, 6RD

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

### Networking
- LAN Setup
- VLAN Group
- Interface group

### 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,TR111, TR181
- 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
- Certificates

### System Monitor
- xDSL Statistics
- Traffic Status
- MAC Address Table
- ARP table
- System Log

## Hardware Specifications

### VDSL
- G.993.1 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): 245 x 142 x 42mm (9.64" x 5.59" x 1.65")
- Packing weight: 380 g (0.84 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
- CE

## Package Contents
- VDSL2 Bridge Modem
- Power adapter
- Quick start guide
- DoC & Safety warning

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