ZYXEL
COMMUNICATIONS

VMG4005-B50B
VDSL2 17a Bonding and 35b Single Line Bridge

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 bridged mode, 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.

- 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 bridge mode

Benefits

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.

Datasheet VMG4005-B50B

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.

Specifications

System specifications

Bridge features
- IEEE 802.1D transparent bridge & basic spanning tree
- PPPoE (RFC 2516)
- PPPoA (RFC 2364)

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

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 1GbE RJ-45 port

Status LED indicators
- Power
- VDSL#1
- VDSL#2
- LAN

Button
- 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)
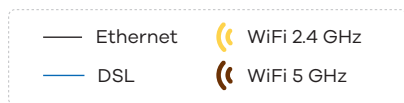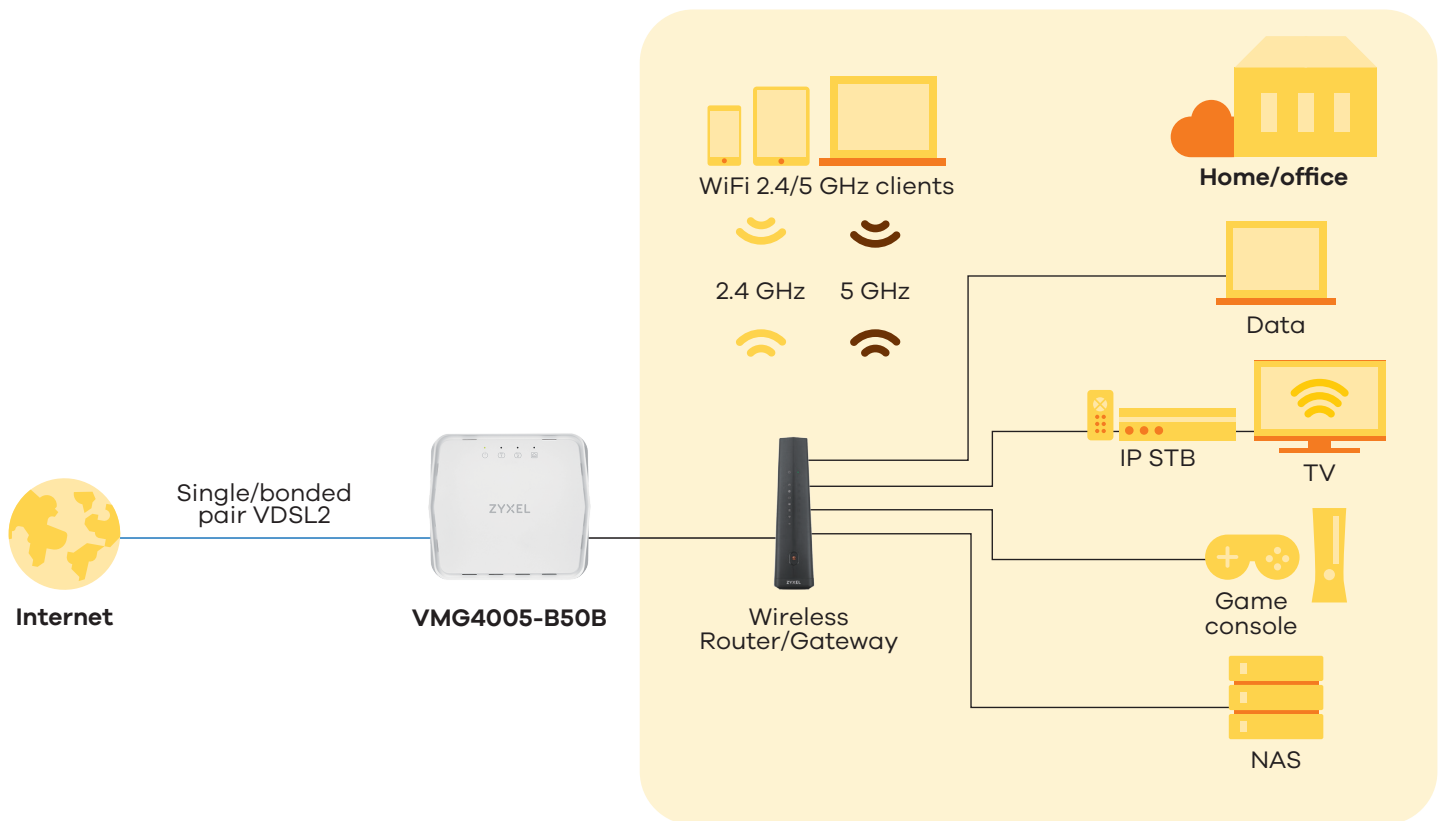- Humidity: 10% to 95% (Non-condensing)
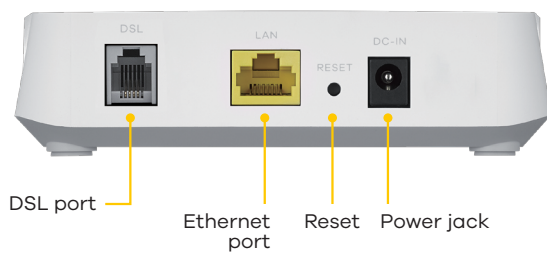
Certification
- FCC/IC

Package contents
- VMG4005-B50B
- Power adapter
- Ethernet cable
- Phone cable
- Quick Start Guide

Application diagram

WiFi 2.4/5 GHz clients

2.4 GHz   5 GHz

Internet

Single/bonded
pair VDSL2

VMG4005-B50B

Wireless
Router/Gateway

Home/office

Data

IP STB

TV

Game
console

NAS

——	Ethernet	((	WiFi 2.4 GHz
——	DSL	((	WiFi 5 GHz

Interface description

DSL port

Ethernet
port

Reset

Power jack

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