



## VMG3927-B50B

### Dual-Band Wireless AC/N VDSL2 Gateway

The Zyxel VMG3927-B50B Dual-Band Wireless AC/N VDSL2 Gateway provides high-speed Internet access to meet the worldwide market requirements for triple-play services. Featuring the built-in 4x4 802.11ac WLAN function that relieves troublesome wirings, the VMG3927-B50B offers extreme coverage for great WiFi user experience. Moreover, the user-oriented design also allows the VMG3927-B50B to meet every customer's own style while providing powerful and practical functions.

#### Benefits

##### CAF II Performance Testing Support

The Zyxel VMG3927-B50B supports optimized TR-143 protocol to facilitate FCC mandated CAF II Performance Testing.

##### Ultra speed for UHD 4K TV services

The Zyxel VMG3927-B50B Dual-Band Wireless AC/N VDSL2 Gateway supports VDSL2 vectoring of up to profile 35b. VDSL2 vectoring reduces cross-talk to increase broadband access performance, which further enables operators to offer better UHD 4k IPTV services.



VDSL2 supports vectoring up to profile 35b



AC2300, dual-band WiFi with 1.7 Gbps\* 802.11ac 4x4 Wave 2 technology



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



Excellent routing and QoS capability to prioritize applications as needed



NAT, firewall with SPI and DoS for better security



Stand-alone and wall mountable



1 GHz dual-core processor with dedicated quad-core routing accelerator

## Carrier-class WiFi for seamless mobility

Rated as AC2300, the Zyxel VMG3927-B50B delivers speeds of up to 1.7 Gbps\* over 5 GHz and 450 Mbps\* over 2.4 GHz. For better user experience, the VMG3927-B50B offers dual-band WiFi with performance-boosting features such as Multi-User MIMO (MU-MIMO) and Beamforming for simultaneous, lag-free streaming and gaming experiences. In addition, its ability to create multiple WiFi networks with up to 4 SSIDs helps operators to easily create individual WLAN networks for video, data and guests.

## TR-069 remote management with TR-181 issue-2 support

The Zyxel VMG3927-B50B supports TR-69 that simplifies remote configuration, upgrade and management and therefore improves cost effectiveness and customer satisfaction. Additional support to the latest TR-181 issue-2 data model also enhances service providers' visibility on subscriber LAN networks for improved customer assistance.

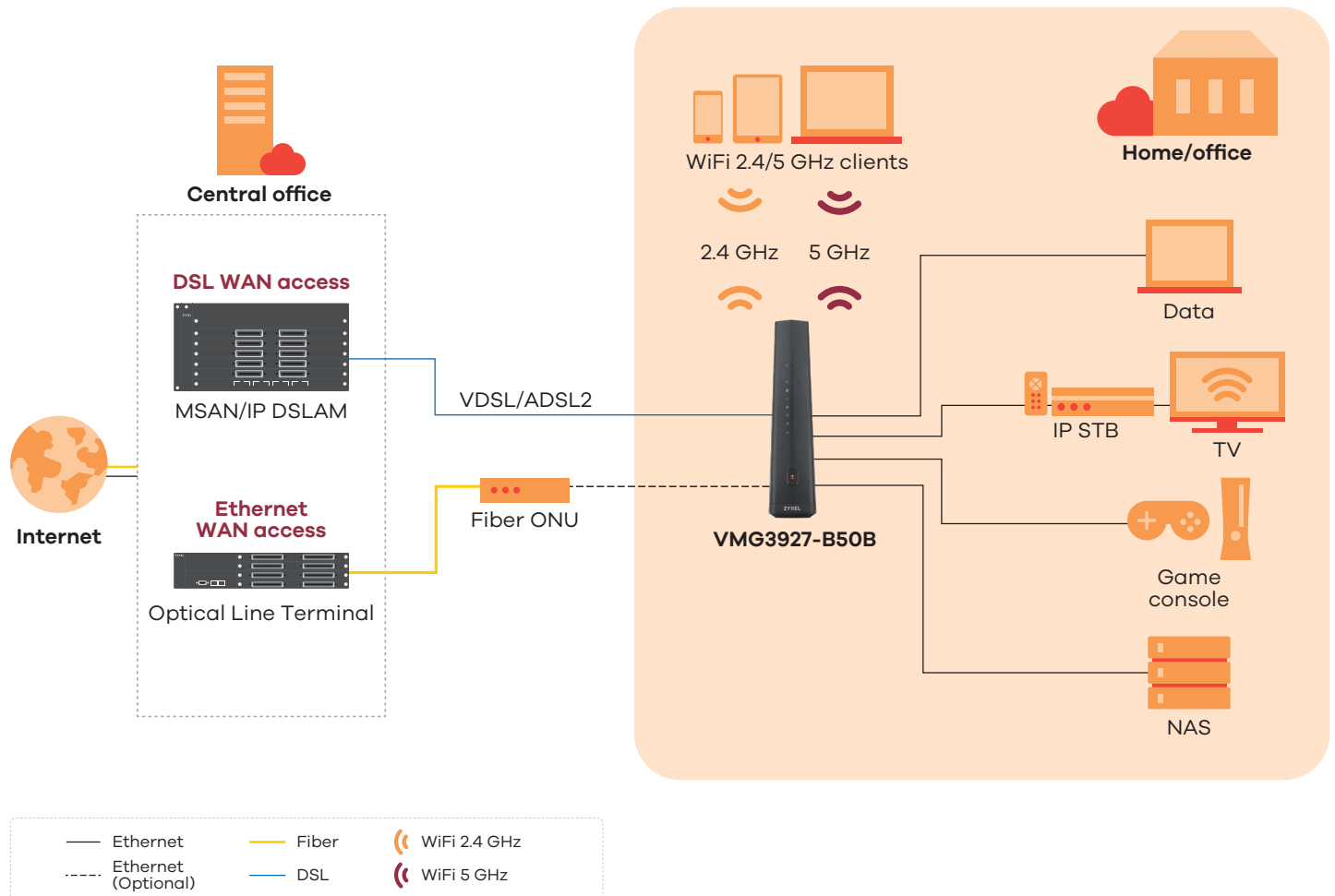
## Connected, anywhere at home

Zyxel's Multy Pro mobile app is a simple, effective utility to help customers setup, adjust and check their home networks. Combining network discovery, easy setup and diagnostics for devices connected to the home network, it also allows service providers to effectively analyze network issues for customers if needed. The Zyxel Multy Pro app gives the best experience while reducing home support costs and service calls by relieving customers' troubles remotely.

## The triple-play powerhouse

The Zyxel VMG3927-B50B is built with sophisticated QoS and multicast traffic shaping features like IGMP v1/2/3 snooping and VLAN capabilities for premium video delivery services. To wireless IPTV operators, its built-in 4x4, 802.11ac chip is the top choice.

## Application diagram



# Specifications

## System specifications

### Wireless standard

- IEEE 802.11 b/g/n 2.4 GHz
- IEEE 802.11 a/n/ac 5 GHz

### Wireless transfer rates

- Transmit:
  - 802.11ax (2.4 GHz): up to 450 Mbps
  - 802.11ax (5 GHz): up to 1733 Mbps

### VDSL and ADSL compliance

- VDSL:
  - G.993.1 VDSL
  - G.993.2 VDSL2, band 997, 998, Over POTS
  - Support VDSL profiles: 8a/b/c/d, 12a/b, 17a, 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

### 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
- WPA2-PSK AES
- Security type
- Multi SSID: up to 4
- MU-MIMO support

### VLAN/QoS

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

### Firewall & security

- Generic packet filter
- DoS attack prevention
- Parental control

### Management

- Web/HTTP: 3 level log-in via SSH or Telnet
- Firmware upgrade via Web/TFTP/FTP/TR-069 RPC method
- Text based configuration
- Configuration backup/update/restore default via Web
- Configurable access control for remote management (interface and/port number)
- DSL forum TR-069, TR-098, TR-181
- TR-111 and TR-181 i2
- SNMP v1, v2
- Rom-D support
- UPnP port forwarding rules on page

## Hardware specifications

### DSL WAN

- One RJ-11 DSL port

### WAN

- One 1GbE RJ-45 port

### LAN

- Four 1GbE RJ-45 ports

### Wireless

- 2.4 GHz: 3x3 MIMO antenna array
- 5 GHz: 4x4 MIMO antenna array

### USB

- One USB 2.0 host

### Processor

- 1 GHz dual-core ARM based processor plus additional offload engines and dedicated quad-core routing accelerator

### Button

- One reset button
- One WPS on/off button

### Status LEDs Indicators

- Power
- DSL
- WAN
- Internet
- LAN
- USB
- WLAN-2.4G/WPS
- WLAN-5G/WPS

## Power consumption

- 12 V DC/2.0 A

## Physical specifications

- Item dimensions (WxDxH): 175 x 60 x 245 mm (6.88" x 2.36" x 9.64")
- Item weight: 546 g (1.20 lb.)
- Packing dimensions (WxDxH): 345 x 232 x 65 mm (13.58" x 9.13" x 2.55")
- Packing weight: 995 g (2.19 lb.)

## Environmental specifications

### Operating environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 20 to 95% RH

### Storage environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 20 to 95% RH

## Certification

- EMC: FCC, IC

## Package contents

- Wireless gateway
- Power adapter
- Ethernet cable
- RJ-11 cable
- Quick Start Guide

\* The maximum wireless data 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.

## Interface description



For more product information, visit us on the web at <https://service-provider.zyxel.com>

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Datasheet [VMG3927-B50B](#)



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