

ZYXEL



VMG8623-T50B Family Series

The Zyxel VMG8623-T50B Family Series provides high-speed Internet access to meet the worldwide market requirements for triple-play services. Featuring the built-in 2x2 802.11ac WLAN function that relieves troublesome wirings, this model offers extreme coverage for great WiFi user experience. Moreover, the user-oriented design allows this model to meet every customer's own style while providing powerful and practical functions.

Benefits

Ultra speed for UHD 4kTV service

The Zyxel VMG8623-T50B Family Series supports broadband access performance, which further enables operators to offer better UHD 4k IPTV services.

The triple-play powerhouse

The Zyxel VMG8623-T50B Family Series 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 2x2, 802.11ac chip is the top choice.



AC1200, dual-band WiFi with 867 Mbps* 802.11ac 2x2 Wave 2 technology



TR-069 remote management (Data model: TR-098/TR-181)



USB 2.0 high throughput for file sharing



Excellent routing and QoS capability to prioritize applications as needed



NAT, firewall with SPI and DoS for better security



Stand-alone and wall mountable



Supports VoIP SIP protocol with 3-way conference calls**



VDSL2 supports super vectoring up to profile 35b***

Carrier-class WiFi for seamless mobility

Rated as AC1200, the Zyxel VMG8623-T50B Family Series delivers speeds of up to 867 Mbps* over 5 GHz and 300 Mbps* over 2.4 GHz. For better user experience, four models offer dual-band, d 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 VMG8623-T50B Family Series 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.

Specifications

System Specifications

Wireless Standard

- 802.11 b/g/n/ac 2.4 GHz, data rate 300 Mbps
- 802.11 a/n/ac 5 GHz, data rate 867 Mbps

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/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

Firewall & Security

- Generic packet filter
- DoS attack prevention
- Parental control

USB

- File sharing
- 3G back up with external 3G USB dongle

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-111 and TR-181 i2
- SNMP v1, v2
- Rom-D support
- UPnP port forwarding rules on page

VoIP**

- Section Initiating Protocol (SIP), RFC 3261
- Codec: G.711 a/μ (64K), G.726 (24/32K), G.722
- G.168 echo cancellation
- Fax/modem detection and pass-through
- Voice Active Detector (VAD)
- Comfort Noise Generator (CNG)
- Dynamic jitter buffer
- DTMF detection and generation
- DTMF relay by in-band and out-of-band (RFC 2833, SIP Info)
- SIP account (URL type included)
- On hook, off hook and flash detection
- Caller ID
- Call forwarding (No condition, busy, no answer)
- Call transferring
- Call hold/Call retrieve
- Three way conference
- Call waiting
- DNS SRV

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

Hardware Specifications

- WAN: one 10/100/1000 Mbps
- Ethernet port RJ-45
- Wireless:
 - Two internal antennas (2.4 GHz)
 - Two internal antennas (5 GHz)

Interface Description

- Ethernet: four 10/100/1000 Mbps
- Ethernet ports RJ-45 (8P8C)
- USB: one USB 2.0 host
- FXS: two RJ-11 **
- DSL: one RJ-11 ***

Button

- One Power on/off button
- One reset button
- One WPS on/off button
- One WLAN on/off button

Status LEDs Indicators:

- Power/System
- WAN
- Internet
- LAN
- WLAN-2.4G/WPS
- WLAN-5G/WPS
- Phone**

Power Consumption

- 12 V DC/ 1.5 A

Environmental Specifications

Temperature:

- Operating: 0°C to 40°C
- Storage: -30°C to 70°C

Humidity:

- Operating humidity: 10 to 90% RH (Non-condensing)
- Storage humidity: 10 to 95% RH (Non-condensing)

Physical Specifications

- Item dimensions : 220 x 153 x 35 mm (8.66" x 6.02" x 1.38")
- Item weight : 325 g (0.67 lb.)

Certification

- Safety: CE-LVD
- EMC: CE

Package Content

- Wireless IAD
- Power adapter
- Ethernet cable
- Quick start guide
- Safety warning card

* 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.

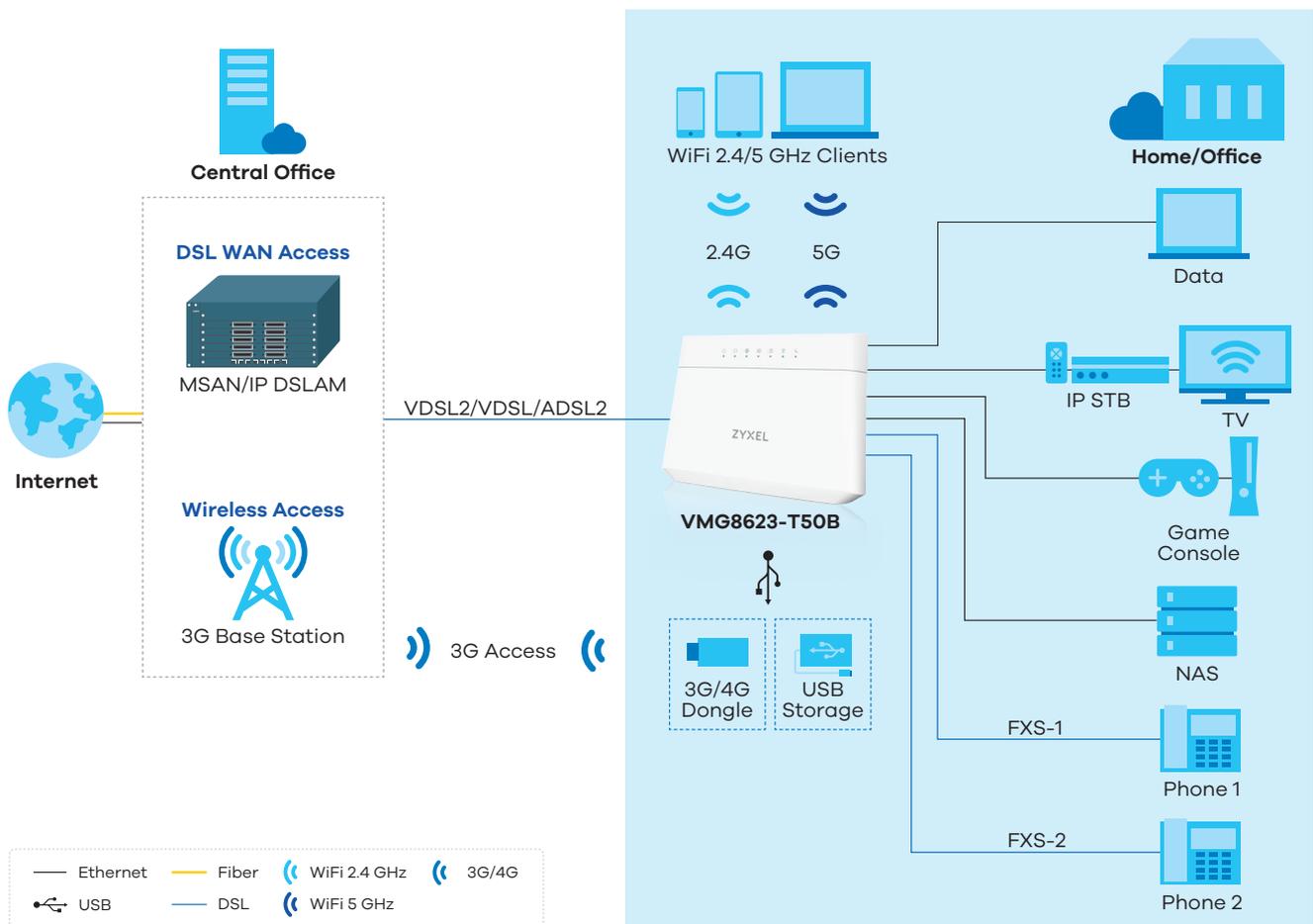
** Supported only by VMG8623-T50B & EMG5523-T50B

*** Supported only by VMG3625-T50B & VMG8623-T50B

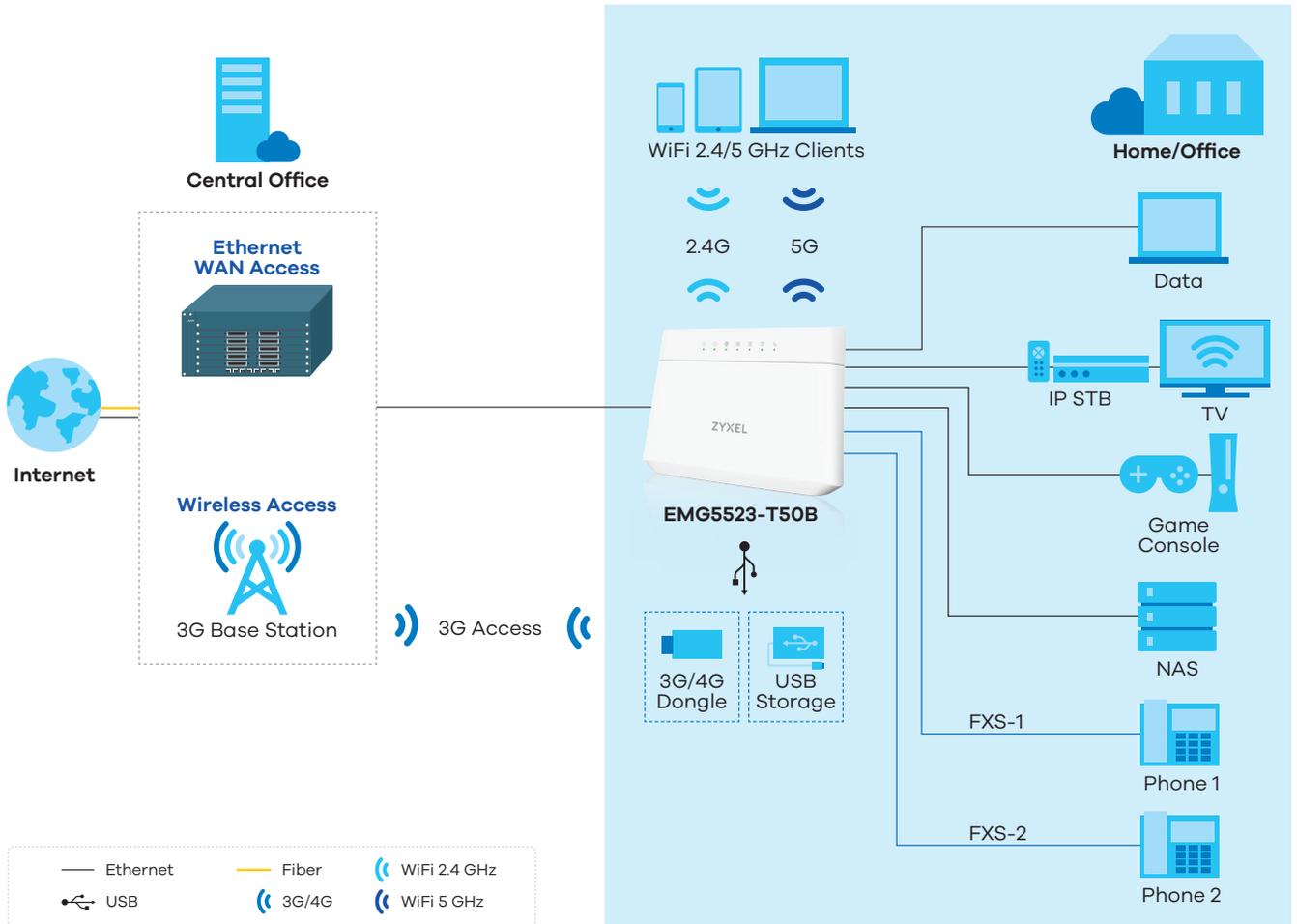
**** The types and number of ports and LED indicators could be changed regarding to the spec and model.

Applications Diagram

VMG8623-T50B/VMG3625-T50B



EMG5523-T50B/EMG3525-T50B



VMG8623-T50B family series

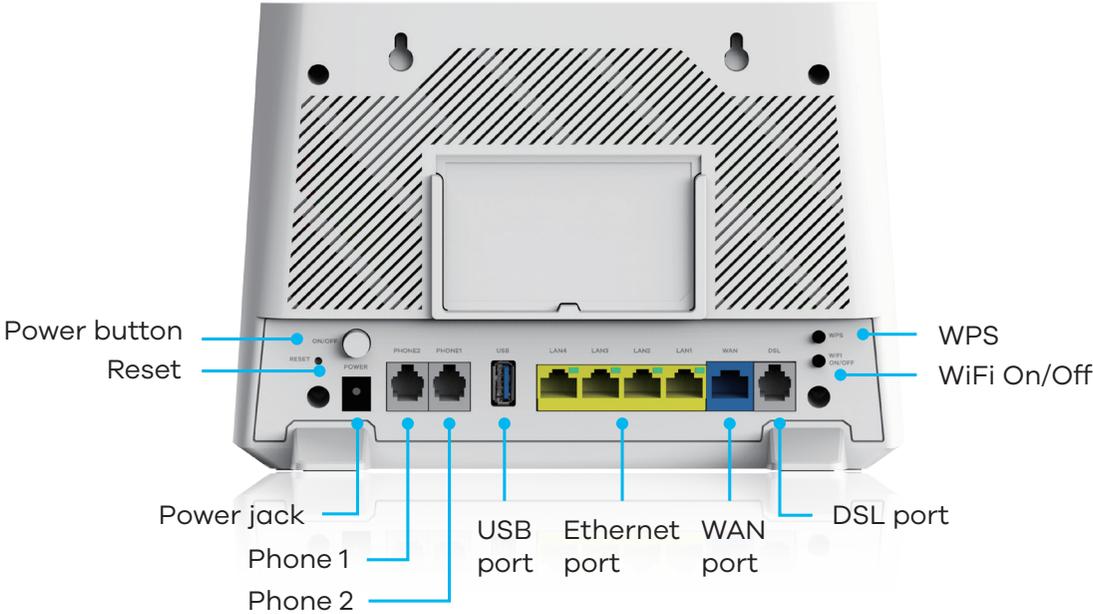
Model	VDSL2 35b Gateway		Ethernet Gateway	
	VMG8623-T50B	VMG3625-T50B	EMG5523-T50B	EMG3525-T50B
Rear Panel				
VDSL2 WAN	17a/35b	17a/35b	-	-
Vectoring/G.INP	Yes/Yes	Yes/Yes	-	-
Ethernet WAN/LAN	1 x GbE/4 x GbE	1 x GbE/4 x GbE	1 x GbE/4 x GbE	1 x GbE/4 x GbE
Wireless 2.4 GHz	2x2 11n, 300 Mbps	2x2 11n, 300 Mbps	2x2 11n, 300 Mbps	2x2 11n, 300 Mbps
Wireless 5 GHz	2x2 11ac, 867 Mbps	2x2 11ac, 867 Mbps	2x2 11ac, 867 Mbps	2x2 11ac, 867 Mbps
VoIP Interfaces	2 x FXS	-	2 x FXS	-
USB Interface	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
OPAL SW	Yes	Yes	Yes	Yes

Interface description

Front Panel****



Rear Panel****



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