

ZYXEL



VMG8825-T50K

Dual-Band Wireless AC/N VDSL2 Combo WAN Gigabit IAD

The Zyxel VMG8825-T50K Dual-Band Wireless AC/N VDSL2 Combo WAN Gigabit IAD provides high-speed VDSL Internet access to meet the worldwide market requirements for triple-play services. While the built-in 4x4 802.11ac WLAN function eliminates troublesome wirings, the VMG8825-T50K offers extreme coverage for great WiFi user experience. Moreover, the user-oriented design allows the VMG8825-T50K to meet every customer's own style while providing functions that are both powerful and practical.

Benefits

Ultra speed for UHD 4k TV service

The Zyxel VMG8825-T50K Dual-Band Wireless AC/N VDSL2 Gigabit IAD supports VDSL2 super 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 super vectoring up to profile 35b



AC2400, dual-band WiFi with 1.7 Gbps* 802.11ac 4x4 Wave 2 technology



Supports VoIP SIP protocol with 3-way conference calls



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



USB 3.0 high throughput for file sharing



Excellent routing and QoS capability to prioritize applications as needed



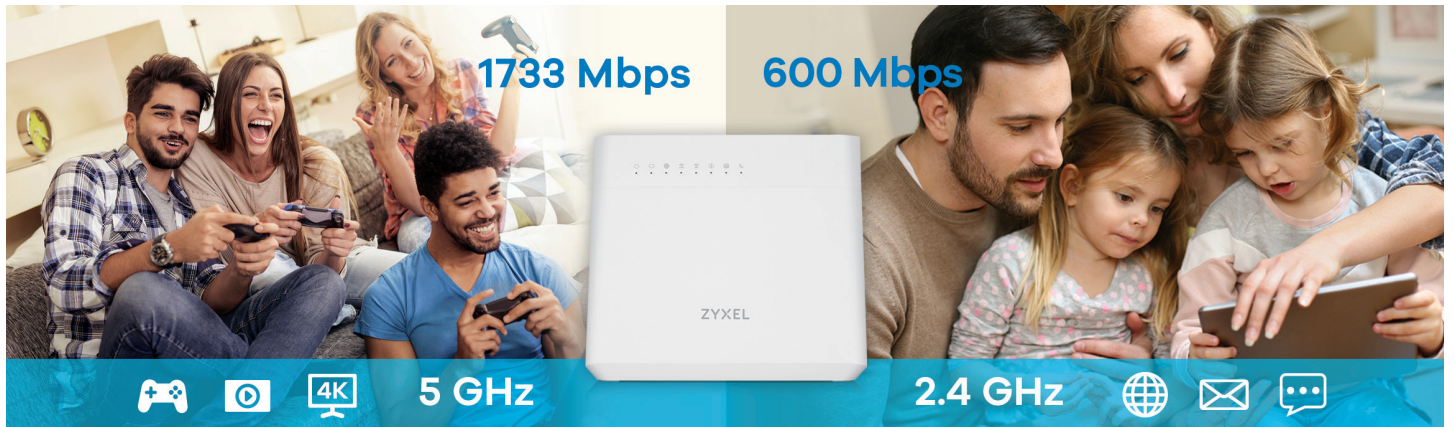
NAT, firewall with SPI and DoS for better security



Stand-alone and wall mountable

Carrier-class WiFi for seamless mobility

Rated as AC2400, the Zyxel VMG8825-T50K delivers speeds of up to 1.7 Gbps* over 5 GHz and 600 Mbps* over 2.4 GHz. For elevated user enjoyment, the VMG8825-T50K 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.



The triple-play powerhouse

The Zyxel VMG8825-T50K 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.



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

The Zyxel VMG8825-T50K supports TR-069 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 600 Mbps
- 802.11 a/n/ac 5 GHz, data rate 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, and 35b
 - G.vector
- ADSL:
 - ANSI T1.413 compliant
 - G.992.1 (G.dmt)
 - G.992.2 (Splitterless, G.lite)
 - G.992.3 (ADSL2)
 - G.992.5 (ADSL2+)
 - G.INP support

Router/Bridge Features

- IEEE 801D 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
- MU-MIMO support
- Multi SSID: up to 4

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/4G dongle (By 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

- SIP (Section Initiating Protocol, 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

Hardware Specifications

- WAN port: One 10/100/1000 Mbps Ethernet port RJ-45
- DSL port: One RJ-11
- Ethernet port: Four 10/100/1000 Mbps Ethernet ports RJ-45 (8P8C)
- Wireless
 - Three internal antennas (2.4 GHz)
 - Four internal antennas (5 GHz)
- VoIP: 2 FXS ports
- USB:
 - One USB 3.0 host
 - One USB 2.0 port

- Button:
 - One power on/off button
 - One reset button
 - One WPS on/off push button
 - One WLAN on/off button
- Status LEDs indicators:
 - Power/System
 - WAN
 - Internet
 - WLAN-2.4G
 - WLAN-5G
 - WPS
 - LAN
 - Phone
- Power consumption: 12 V DC, 2.5 A

Physical Specifications

- Item dimensions (WxDxH): 220 x 75 x 200 mm (8.66" x 2.95" x 7.87")
- Item weight: 549 g (1.21 lb.)

Environmental Specifications

Operating Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 10% to 90% RH (Non-condensing)

Storage Environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% RH (Non-condensing)

Certification

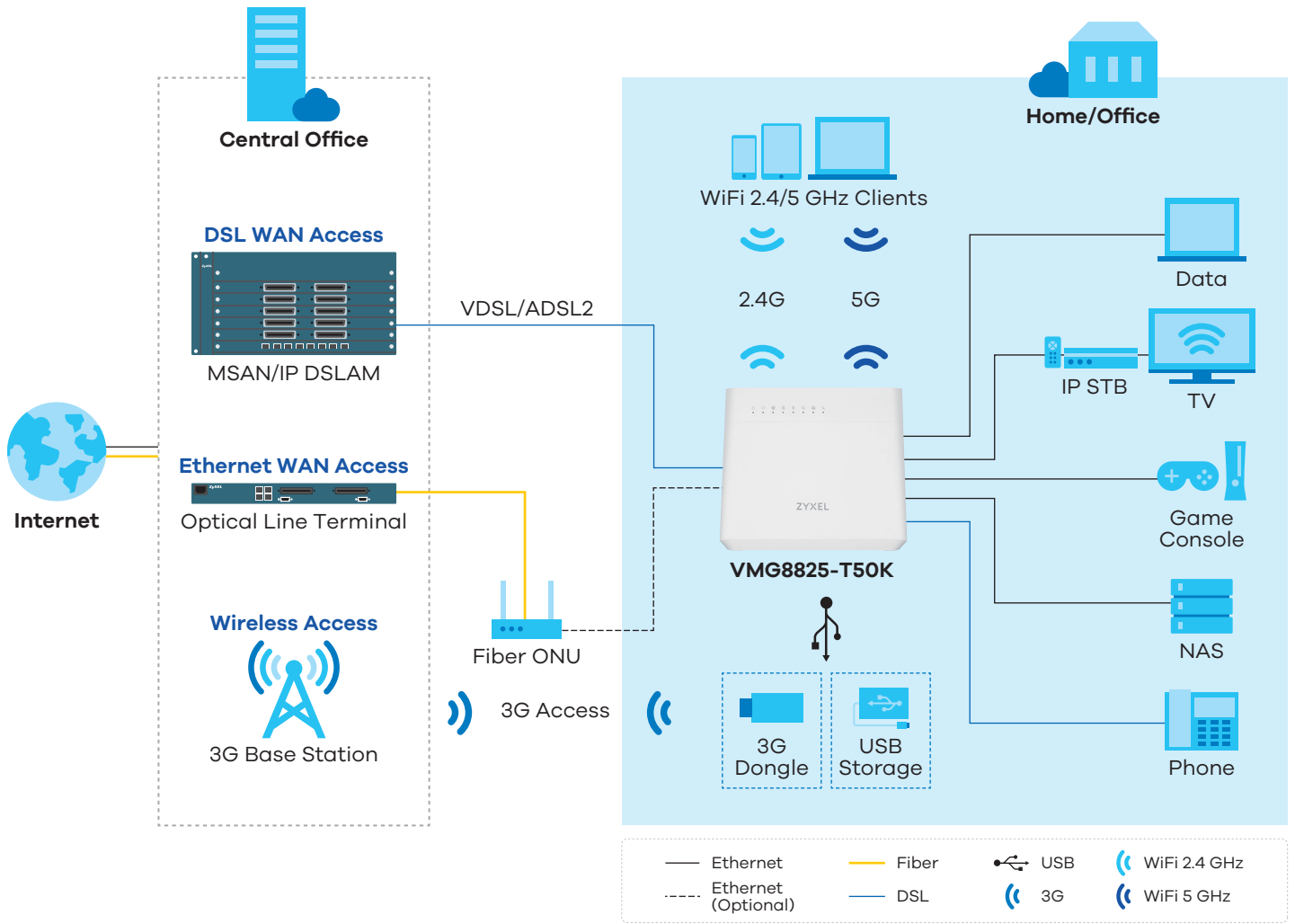
- CE

Package Contents

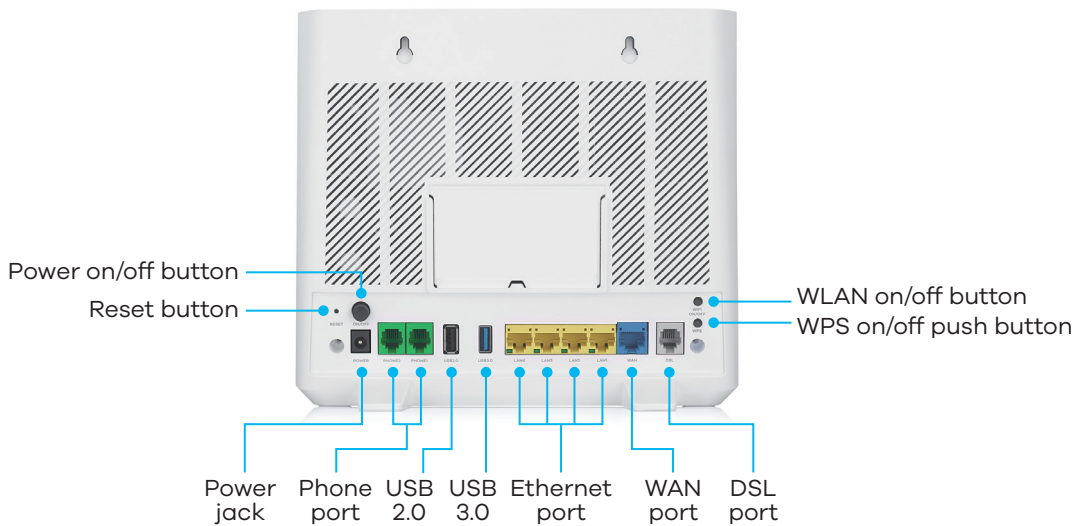
- Wireless IAD
- Power adapter
- Ethernet cable
- Phone cable
- Quick start guide
- Safety warning card

* 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.

Application Diagram



Rear Panel



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