





VMG8825-T50K/VMG3927-T50K/ EMG5723-T50K Series

Dual-Band Wireless AC/N VDSL2/Ethernet IAD/Gateway

The Zyxel VMG8825-T50K/VMG3927-T50K/EMG5723-T50K Dual-Band Wireless AC/N VDSL2/Ethernet IAD/Gateway provides high-speed internet access to meet the worldwide market requirements for triple-play services and comprehensive portfolio to meet service providers' versatile deployment plans. While the built-in 4x4 802.11ac WLAN function and Zyxel MPro Mesh™ Solutions enable seamless WiFi experience, the Series also supports Zyxel Home Cybersecurity to create a stable and future-proof internet infrastructure for superior business competitiveness.



VDSL2 supports super vectoring up to profile 35b



Zyxel Home Cybersecurity



Zyxel MPro Mesh™ Solutions (compliant with EasyMesh standards)



Remote management via TR-069 and TR-181 i2



Zyxel-developed OPAL for superior flexibility and faster time-to-market



VoIP SIP protocol with 3-way conference calls

Benefits

Carrier-class WiFi for seamless mobility

Rated as AC2400, the Series delivers speeds of up to 1.7 Gbps* over 5 GHz and 600 Mbps* over 2.4 GHz. For elevated user enjoyment, the Series 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 2 SSIDs (1 Main + 1 Guest) helps services providers to easily create individual WLAN networks for video, data and guests.

* The maximum wireless data transfer rate 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.



Whole-home network security solution in one device

With embedded Zyxel Home Cybersecurity, the Series allows service providers to create a stable and future-proof internet infrastructure with cutting-edge technologies and mechanisms such as a cloud-based AI and machine learning, without an impact on the system performance. Developed through a longstanding partnership with F-Secure, Zyxel Home Cybersecurity enables service providers to reinforce competitiveness by providing full aspect protection to secure subscribers' home networks.

Premium MPro Mesh™ for whole-home coverage**

Featuring EasyMesh fully compliant Zyxel MPro Mesh™ Solutions, the Series enhances your subscribers' experience by providing self-adapting, easy-to-manage whole-home WiFi coverage, while reducing your service OPEX.

** Combining VMG8825-T50K, VMG3927-T50K and EMG5723-T50K with the WAP6807 Wireless Extender is advised for the ideal mesh network performance. Please contact us for detailed mesh function availability.

Remote management through TR-069 and TR-181 issue-2

The Series supports TR-069 that simplifies remote configuration, upgrade, and management and therefore improves cost effectiveness and customer satisfaction. The additional support to the latest TR-181 issue-2 data model also enhances service providers' visibility on subscriber LAN networks for improved customer assistance.

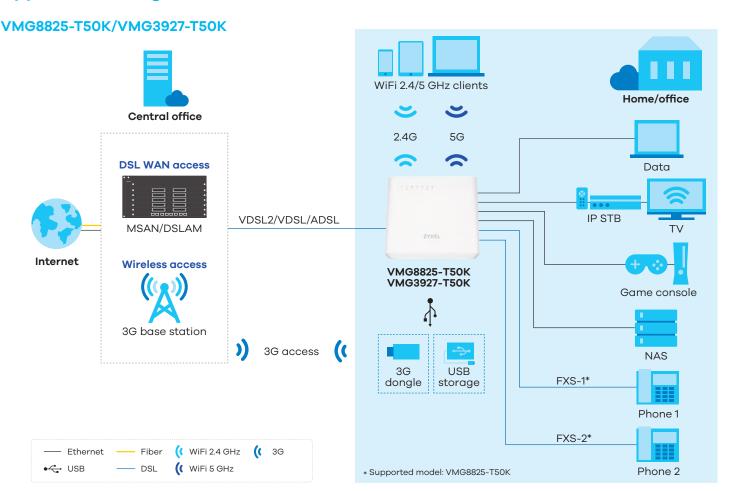
Zyxel OPAL firmware achieves superior flexibility and faster time-to-market

Compliant with the same OPAL firmware trunk applied in all Zyxel CPEs, the Series inherits a rich, field-proven feature set. Service providers can ensure the same user experience, after migrating to new devices.

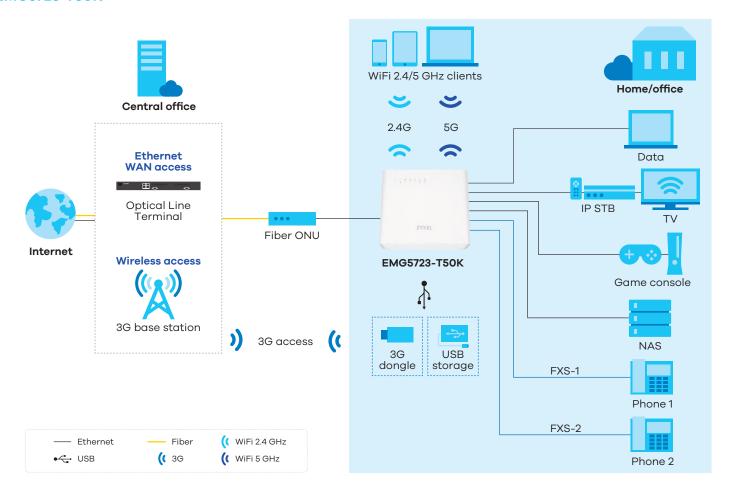
The triple-play powerhouse

The 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. The built-in 4x4, 802.11ac chip is especially the top choice for wireless IPTV operators.

Applications diagram



EMG5723-T50K



VMG8825-T50K/VMG3927-T50K/EMG5723-T50K

Model	VDSL2 35b Gateway	Ethernet Gateway			
	VMG8825-T50K	VMG3927-T50K	EMG5723-T50K		
Product name	Dual-Band Wireless AC2400 VDSL2 Gigabit IAD	Dual-Band Wireless AC2400 VDSL2 Gigabit Gateway	Dual-Band Wireless AC2400 Gigabit Ethernet IAD		
Hardware					
WAN interface	DSL RJ-11/RJ45/GbE	DSL RJ-11/RJ-45/GbE	RJ45/GbE		
Ethernet port (10/100/1000)	5 (1 for Ethernet WAN)	5 (1 for Ethernet WAN)	5 (1 for Ethernet WAN)		
POTS FXS port	2	-	2		
USB port	2 (USB 3.0/2.0)	2 (USB 3.0/2.0)	1 (USB 3.0)		
VDSL	 G.993.1 VDSL G.993.2 VDSL2, Band 997, 998, Over POTS 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				
Router/bridge features	 IEEE 801.D 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 WEP data encryption 64/128 bit WPA2/WPA2-PSK with TKIP & AES security type Multi SSID: 2 (1 Main + 1 Guest) MU-MIMO 				
VLAN/QoS	802.1Q VLAN tagging/un-taggingSupports flexible traffic classification				
Voice					
SIP v2 (RFC 3261)	Yes	-	Yes		
SIP account (URL type included)	Yes	Yes			
SDP (RFC 2327)	Yes	-	Yes		
(Yes - Yes				
RTP (RFC 1889)	162		165		
RTP (RFC 1889) RTCP (RFC 1890)	Yes	-	Yes		

Voice			
CODEC	G.711 a/u law/G.726/ G.722/G.729	-	G.711 a/u law/G.726/ G.722/G.729
DTMF detection	Yes	-	Yes
DTMF: In-band and out-of- band	Yes	-	Yes
QoS (IP bandwidth management)	Yes	-	Yes
ToS	Yes	-	Yes
Phonebook	Yes	-	Yes
FAX, modem detection and pass-through	Yes	-	Yes
T.38 FAX	Yes	-	Yes
IVR	Yes	-	Yes
Call waiting	Yes	-	Yes
Call hold//call retrieve	Yes	-	Yes
Call transferring	Yes	-	Yes
Call forwarding	Yes	-	Yes
Caller ID	Yes	-	Yes
Do not disturb	Yes	-	Yes
Three way conference	Yes	-	Yes
Flexible dial plan	Yes	-	Yes
Dynamic jitter buffer	Yes	-	Yes
On hook, off hook and flash detection	Yes	-	Yes
DSL compliance			
Standards/profile	VDSL2 Vectoring (up to 35b)/ADSL2+	VDSL2 Vectoring (up to 35b)/ADSL2+	-
	•		
Wireless			
Wireless WLAN	2.4 GHz 3x3 n + 5 GHz 4x4 ac	2.4 GHz 3x3 n + 5 GHz 4x4 ac	2.4 GHz 3x3 n + 5 GHz 4x4 ac
		2.4 GHz 3x3 n + 5 GHz 4x4 ac	2.4 GHz 3x3 n + 5 GHz 4x4 ac
WLAN		2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807
WLAN MPro Mesh™	2.4 GHz 3x3 n + 5 GHz 4x4 ac		
WLAN MPro Mesh™ Model combination	2.4 GHz 3x3 n + 5 GHz 4x4 ac		
WLAN MPro Mesh™ Model combination Firewall	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807	WAP6807	WAP6807
WLAN MPro Mesh™ Model combination Firewall DoS attack prevention	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes	WAP6807 Yes	WAP6807 Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes	WAP6807 Yes Yes	WAP6807 Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes	WAP6807 Yes Yes Yes	WAP6807 Yes Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes	WAP6807 Yes Yes Yes	WAP6807 Yes Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru)	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes Yes Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP PPPoE	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes Yes Yes Yes	WAP6807 Yes Yes Yes Yes Yes Yes Yes
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP PPPoE DHCP client/server/relay	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP PPPoE DHCP client/server/relay PPPoA	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP PPPoE DHCP client/server/relay PPPoA DHCP server	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP PPPoE DHCP client/server/relay PPPoA DHCP server UPnP	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Yes Y	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye
WLAN MPro Mesh TM Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP PPPoE DHCP client/server/relay PPPoA DHCP server UPnP IP policy routing	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Yes Y	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye
WLAN MPro Mesh™ Model combination Firewall DoS attack prevention Parental control Stateful packet inspection Denial of service VPN IPSec (Pass thru) Network TCP/IP PPPoE DHCP client/server/relay PPPoA DHCP server UPnP IP policy routing Multi-to-multi NAT	2.4 GHz 3x3 n + 5 GHz 4x4 ac WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	WAP6807 Yes Yes Yes Yes Yes Yes Yes Ye

Management					
Web configurator	Yes	Yes	Yes		
TR-069/TR-181 i2	Yes	Yes	Yes		
Remote firmware upgrade	Yes	Yes	Yes		
SNMP	Yes	Yes	Yes		
Rom-D	Yes	Yes	Yes		
Others	 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 UPnP port forwarding rules on page 				
Buttons	 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 (VMG8825-T 	50K and EMG5723-T50K)			
Power consumption	12V DC, 2.5A				
Package contents	 Wireless gateway/IAD Power adapter Ethernet cable Phone cable Quick Start Guide Safety warning card 				
Physical specifications					
Dimensioin (WxDxH) (mm/in.)	216 x 31 x 194 mm (9.9	99" x 1.37" x 7.24")			
Weight (g/lb.)	549 g (1.21 lb.)				
Environmental specification	_				
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°E to 158°E)			

Hardware interface

Front panel VMG8825-T50K



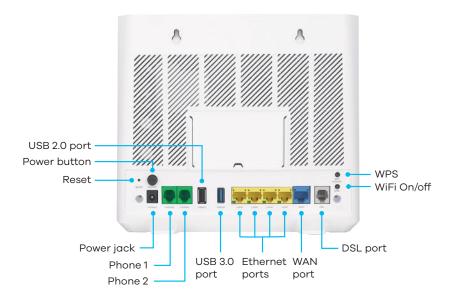
EMG5723-T50K



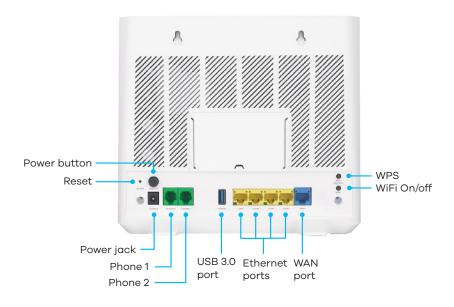
VMG3927-T50K



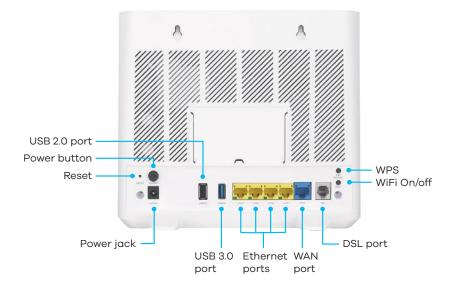
Rear panel VMG8825-T50K



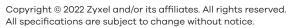
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For more product information, visit us on the web at https://service-provider.zyxel.com







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