ZyXEL

AC1600 VDSL2 Combo Gateway

- VDSL2/ADSL2+ dual mode with vectoring
- Carrier grade high power dual band AC1600 WiFi coverage
- Combo GigE WAN for FTTH/DSL deployments
- Extreme routing performance for FTTx applications
- Superior QoS, firewall, and remote management

Benefits

VDSL2 with G.vector Optimized Performance

ZyXEL's VMG3925 AC1600 VDSL2 Combo Gateway provides the latest in VDSL2 performance with vectoring up to profile 17a. Vectoring decreases crosstalk for increased bandwidth enabling rich multimedia experiences at longer subscriber distances.

Flexible Deployment with Multiple DSL Options

The VMG3925 gateway offers excellent reliability and deployment flexibility with VDSL2 and ADSL2+ fallback as well as PTM/ATM mode support, with full auto-detection selecting the optimal connection type within either modern or legacy network environments.

Gigabit Ethernet Combo WAN / LAN Port

Intended for fiber deployments, the VMG3925 includes a dedicated gigabit Ethernet Combo WAN port with non-blocking routing performance. This enables operators to use a single CPE for both copper and fiber networks and planned migrations. When deployed in a copper network, the gigabit port can be used as a fifth LAN port.

Excellent 802.11AC High Powered Wireless Home Connectivity

The VMG3925 AC1600 VDSL2 Combo Gateway features carrier-grade high-powered dual-band wireless 802.11ac and 802.11n wireless technology to deliver high speed performance and extended coverage. 802.11ac brings leading-edge WiFi to your customer's homes, enabling todays high-bandwidth portable devices with ease. Wireless data rates can reach 1300Mbps* over 5GHz and 300Mbps* over 2.4GHz with stable, reliable wireless connections virtually eliminating dead zones while extending coverage to remote areas throughout the home. Additionally, four Gigabit Ethernet LAN ports operate at wire speed for speedy data transfers within the home.

Comprehensive Routing with IPv6, TR-069, QoS, and Firewall

ZyXEL engineers excellent routing capabilities designed to meet service provider needs. The VMG3925 gateway continues this trend with full IPv4 support, IPv6/IPv4 Dual Stack, and IPv6 Rapid Deployment (RD) for a strong foundation. Upon this foundation, ZyXEL implements advanced features including TR-069 remote management and device configuration, quality of service (QoS) functionality to categorize incoming and outgoing traffic, and a stateful packet inspection (SPI) firewall for end user security.

** Listed wireless data transfer rates are the theoretical maximum. The actual data transfer rate may vary depending on the network environment.*

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VMG3925

VDSL2 · Dual Wan · 802.11ac 1600 Mbps · IPv6 · QOS Media Streaming · TR-069 · WiFi CERTIFIED

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VMG3925

Specifications

System Specifications

DSL
- VDSL2 (G.993.2)
  - 100Mbps/50Mbps* down/up data rates
  - 8a, 8b, 8c, 8d, 12a, 12b, 17a profiles
  - Dual latency
  - G.vector (G.993.5)
- ADSL/2/2+
  - ADSL (T1.413), G.dmt (G.992.1), G.lite (G.992.2), ADSL2 (G.992.3), ADSL2+ (G.992.5) compliant
  - Reach Extended ADSL2 (Annex L)
  - Annex M (G.992.3 / G.992.5)
  - ATM/PTM transfer mode
- G.INP value support up to INP=16
- PhyR PHY Level Retransmission Technology
- VDSL2 and ADSL/2/2+ over POTS

WiFi
- 5 GHz band
  - 802.11ac support
  - 1.3 Gbps* data rate
  - Backward compatible to 802.11a/n
  - 3x3 antenna array
  - High power amplifier
- 2.4 GHz band
  - 802.11n support
  - 300 Mbps* data rate
  - Backward compatible to 802.11b/g
  - 2x2 antenna array
  - 400mW high power
- WEP data encryption (64/128 bit)
- WPA/WPA2, WPA-PSK/WPA2-PSK (Wi-Fi Protected Access - Pre-Shared Key)
- WPS (Wi-Fi Protected Setup)
- WDS (Wireless Distribution System)
- Wi-Fi scheduling
- Multiple SSID (up to 4)

Router
- IPv6
  - Dual Stack (IPv6 / IPv4)
  - IPv6 Rapid Deployment (6RD)
- DHCP client / server / relay with option 60
- PPPoE / PPPoA / IPoE / IPoA
- DNS server/relay and dynamic DNS
- Network Address/Port Translation (NAT/NAPT)
- Port forwarding and UPnP
- Transparent bridging (802.1d)
- Static route and policy routing
- RIP I / RIP II
- IGMP v1, v2, v3
- IGMP proxy and snooping

VLAN & QoS
- Flexible packet & tag classification
- 6-bit DiffServ Code Point (DSCP)
- 3-bit Class of Service (802.1p CoS)
- 12-bit VLAN ID (802.1q)
- Priority queuing and scheduling

Firewall & Security
- Stateful Packet Inspection (SPI)
- Denial of Service (DoS) Prevention
- Multiple VPN (IPSec, PPTP) pass-through
- Packet filtering
- URL keyword blocking
- Parental controls

USB
- Adapter support for 3G/4G WAN backup
- Media server (DLNA) and file sharing (FTP)
- Print server

Management
- Web GUI (HTTP/HTTPS)
- Command Line Interpreter (CLI) via Telnet
- TR-069 remote management
- TR-064 local management
- Simple Network Management Protocol (SNMP)
- Connectivity Fault Management (802.1ag CFM)
- Logs and statistics

Hardware Specifications

WAN
- One RJ-11 DSL over POTS port
- One RJ-45 Gigabit Ethernet port (software assignable as 5th LAN port)

LAN
- Four RJ-45 Gigabit Ethernet ports
- Wireless interface:
  - Two internal 3 dBi antennas (2.4 GHz)
  - Three printed 4 dBi antennas (5 GHz)

USB
- One standard-A USB 2.0 host connector

Buttons & Switches
- Recessed reset push button
- WPS config & WLAN on/off push button
- Power on/off switch

LED Status Indicators
- PWR/SYS, DSL, INTERNET, WAN, ETHERNET, WiFi 2.4G, WiFi 5G, USB

Power Supply
- 120V AC to 12V / 2A DC adapter

Physical Specifications
- Item dimensions (WxDxH): 7.24x5.8x1.72 inches (215x142x42 mm)
- Item weight: 0.82 lb. (370 g)
- Packing dimensions (WxDxH): 11.2x7.3x3.8 inches (283x185x97 mm)
- Packing weight: 786 g (1.74 lb)

Environmental Specifications

Operating Environment
- Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- Humidity: 20% ~ 85% RH (non-condensing)

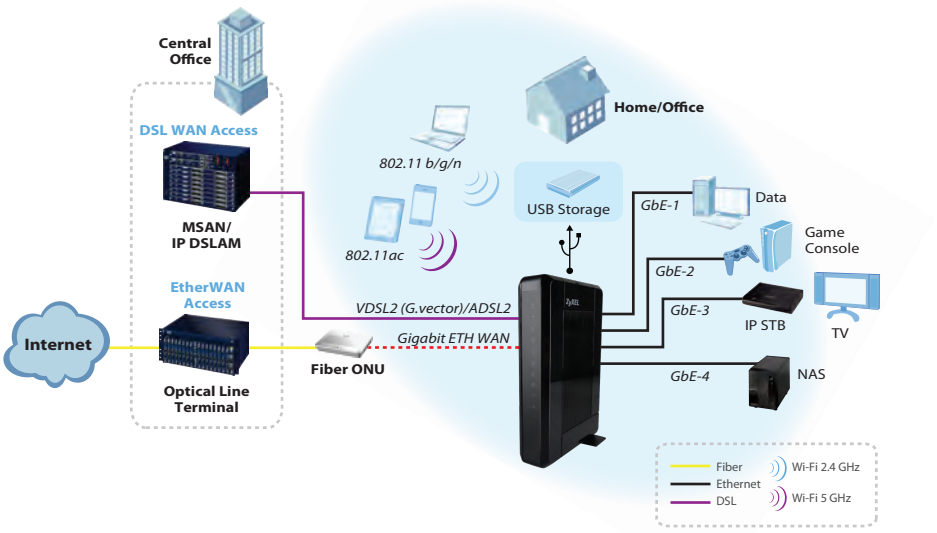
Storage Environment
- Temperature: -30°C ~ 70°C (-22°F ~ 158°F)
- Humidity: 20% ~ 90% RH (non-condensing)

Certification

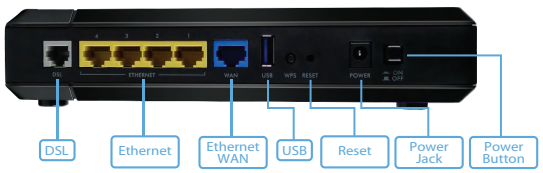
EMC
- FCC Part 15 (Class B)

Safety
- UL 60950-1

Application Diagram



Rear Panel



For more product information, visit us on the web at www.ZyXEL.com