

# ZyXEL



## Experience Dual-Band Wireless Streaming for Service Optimization

AC 1750

- 802.11ac compliance with 450 Mbps\* throughput at 2.4 GHz and 1300 Mbps\* at 5 GHz for exceptional range and speed
- True dual networks offer fast, optimized HD media experience for mobile devices and desktops
- Two USB host ports deliver Samba File Service and DLNA Media Streaming from external USB or hard drives
- Remote provisioning and management through TR-069
- Dedicated smart Quality of Service (QoS) for jitter-free video streaming, VoIP and lag-free online gaming
- WPS on/off buttons for easy setup
- Eco-friendly, energy-saving WLAN, power on/off and LED on/off switches

The ZyXEL EMG2926-Q10A is a Dual-Band Wireless AC/N 4-port Gigabit Ethernet Gateway with USB ports designed to enable smoother multimedia streaming taking advantage of the latest AC technology. The EMG2926-Q10A offers concurrent data transfer rates of 450 Mbps\* at 2.4 GHz and 1300 Mbps\* at 5 GHz for users to enjoy high speeds across greater distances throughout their homes for maximum wireless coverage. The device also offers StreamBoost™ support that automatically allocates a proper amount of bandwidth to each connected devices without the need to manually set up Quality of Services (QoS) for each device or application.

### Benefits

#### Ideal home network coverage and extreme performance

Based on the 802.11ac wireless technology with data rates of up to 1750 Mbps\*, the ZyXEL EMG2926-Q10A is capable of offering actual throughputs as high as the astounding 1300 Mbps\*—three times the speed of 802.11n technology at the 5 GHz band. It comes with a Gigabit WAN port and four Gigabit Ethernet ports to interoperate with FTTx or cable modems, and its 802.11ac compliance offers a better platform for FTTx and cable infrastructure deployments. The EMG2926-Q10A allows telcos, service providers and cable operators to provide home connectivity without spending the cost to rewire the entire house. The EMG2926-Q10A is also an IPv6-enabled device that works with both the new IPv6 standards as well as the current IPv4 standard.

#### Concurrent dual-band wireless optimized for different applications

The ZyXEL EMG2926-Q10A features 802.11ac technology to provide the ultimate solution for both speed and coverage demands. The 802.11ac wireless standard with data rates of up to 1750 Mbps\* provides stable, reliable wireless connections for high-speed data and multimedia applications. The 802.11ac technology empowered the device to eliminate dead zones and to extend coverage while retaining backward compatibility with all Wi-Fi certified devices. Users can browse the Web with the 2.4 GHz band while watching HD video or play online games smoothly at the 5 GHz band while others at home are browsing the Web or checking emails.

#### Smart QoS for the unparalleled movie, video and gaming experience

The ZyXEL EMG2926-Q10A adopts Smart QoS taking advantage of the intelligent StreamBoost™ feature to allow users to experience high network performance even with a large number of users connected. It prioritizes bandwidth applications to optimize multi-stream HD video, gaming sessions, IP voice services and Web browsing through assigning appropriate bandwidths to each application automatically. It also minimizes the impact from large packets and lower-priority traffics on latency-sensitive tasks to effectively eliminate interruption to online games and video steaming applications.



**EMG2926-Q10A**  
Dual-Band Wireless AC/N  
Gigabit Ethernet Gateway



Wireless Scheduling



Power On/Off Switch



Wireless Switch



3 Times  
11ac up to 3X faster than 11n



Concurrent Dual-Band



Smart Network by StreamBoost™



Wi-Fi Protected Setup



### Auto provisioning and remote management through TR-069

By adopting the TR-069 standard, the ZyXEL EMG2926-Q10A incorporates the TR-069 standard management specifications for service providers to remotely manage and configure the devices without user intervention. Moreover, it offers a “plug-and-play” experience to reduce deployment complexity, operating costs and maintenance expenses for service providers.

### Easy management with two-level configuration

The ZyXEL EMG2926-Q10A provides a two-level management mechanism for service providers to use two different privilege levels to ensure security of their critical device configurations. Service providers can manage and configure the device with full privilege and parameters, while end-users are only granted partial administration rights to use basic, user-friendly configuration features such as wireless scheduling and SSID settings.

## Specifications

### System Specifications

#### Wireless Standard

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

#### Wireless Transfer Rate

- Transmit:
  - 450 Mbps\* for 2.4 GHz
  - 1300 Mbps\* for 5 GHz
- Receive:
  - 450 Mbps\* for 2.4 GHz
  - 1300 Mbps\* for 5 GHz

#### Wireless Security

- 64/128 bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK

#### Wireless Features

- Auto channel selection
- Wi-Fi Multimedia (WMM)
- Wireless scheduling
- Wireless output power management
- Multiple SSID up to 4
- Wi-Fi Protected Setup (WPS)
- Intra-BSS traffic block
- MAC address filtering

#### Firewall

- Stateful Packet Inspection (SPI)
- Denial-of-Service (DoS) attack prevention
- ICMP blocking

#### Routing

- IPv4/IPv6
- NAT
- Port forwarding
- WAN connection type: DHCP, PPPoE
- DHCP Option 60/121/125
- DHCP server on LAN
- IGMP v1/v2
- IGMP Proxy
- Dynamic DNS

#### VPN Pass-through

- PPTP
- L2TP
- IPSec

#### Management

- Web GUI (HTTP/HTTPS)
- TR-069/TR-098
- SNMP v1/v2c & MIB II
- Firmware upgrade through GUI/TR-069
- 2-tier level access and administration
- Customized factory default

#### Other

- Content filter
- Parental control
- UPnP
- USB media sharing
- NTP client

#### Hardware Specifications

- WAN: One 10/100/1000 Mbps Ethernet RJ-45 port with auto MDI/MDIX support
- LAN: Four 10/100/1000 Mbps Ethernet RJ-45 ports with auto MDI/MDIX support
- LED indicators:
  - Power
  - WAN
  - Internet
  - WLAN (2.4 GHz)
  - WLAN (5 GHz)
  - LAN (1 ~ 4)
  - WPS
  - USB (1 ~ 2)
- Internal antennas
- Buttons:
  - Power on/off
  - Wireless on/off
  - LED on/off
  - WPS
  - Reset
  - USB eject (2 buttons)
- Power: 12 V DC, 2 A
- Power consumption: 20.5 watt max

#### Physical Specifications

- Item dimensions (WxDxH):  
214 x 74 x 165 mm (8.42" x 2.91" x 6.49")
- Item weight: 460 g (1.01 lb.)
- Packing dimensions (WxDxH):  
273 x 195 x 99 mm (10.75" x 7.68" x 3.9")
- Packing weight: 1,010 g (2.24 lb.)

#### Environmental Specifications

##### 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°F to 158°F)
- Humidity: 10% to 95% (Non-condensing)

#### Certification

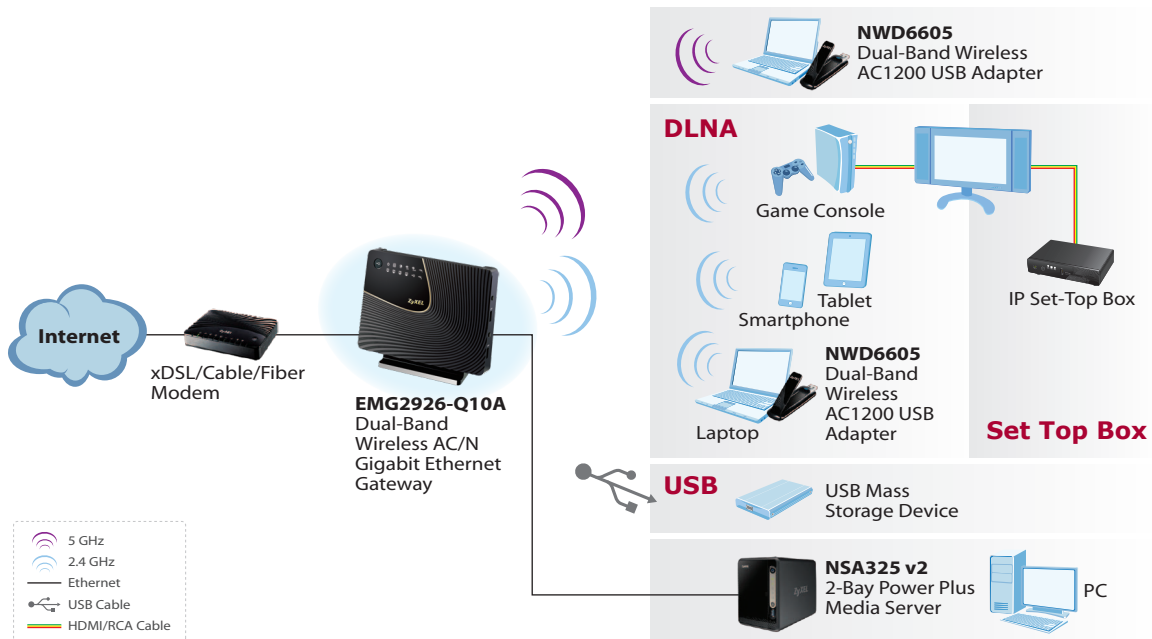
- Safety: CE-LVD, UL
- EMC: CE, FCC, IC

#### Package Contents

- Wireless router
- Power adapter
- Ethernet cable
- Quick start guide
- Warranty card
- Support CD

\*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.

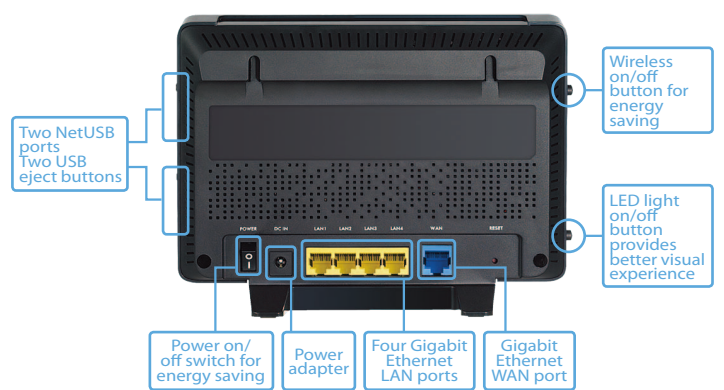
### Application Diagram



### Front Panel



### Rear Panel





For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)



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