



AC2200, High-Power, Managed WiFi Ethernet Gateway for Gigabit Homes

- AC2200, dual-band WiFi
- 1.7Gbps* 802.11ac Wave 2 technology delivering performance boosting features that include Multi-User MIMO (MU-MIMO) and Beamforming.
- Carrier-class WiFi performance with 4x4 antenna configuration for 5GHz and 3x3 antenna configuration for 2.4GHz for simultaneous video streaming and online gaming
- High powered Wi-Fi on both the 5GHz and 2.4GHz bands for extended coverage and performance
- FTTH capable with gigabit Ethernet WAN port
- 802.1q, port-based VLAN and DHCP support for triple-play services
- TR-69 support for remote device provisioning and management
- 5 gigabit Ethernet ports and two USB port

Benefits

The ZyXEL EMG3425 is a premium wireless, gigabit Ethernet gateway ideally suited for FTTH deployments and cable MSOs. It will exceed subscribers WiFi expectations with combined dual-band speeds of 2200Mbps over 5GHz 11ac and 2.4GHz 11n. The latest 802.11ac Wave 2 standard MU-MIMO and Explicit Beamforming technology further maximizes bandwidth utilization to generate sufficient horse power for demanding applications like video streaming and online gaming to multiple wireless clients. With over 25 years of experience and extensive industry-wide interoperability, ZyXEL offers service providers solid products with reduced deployment times and lasting subscriber experience.

Carrier-class WiFi for Seamless Mobility

The EMG3425 offers dual-band WiFi with performance boosting features that include Multi-User MIMO (MU-MIMO) and Beamforming for simultaneous, lag-free streaming and gaming. Rated at AC2200, the new RGs deliver speeds of up to 1.7 Gbps* over 5Ghz and 450 Mbps* over 2.4GHz. High powered WiFi on both 5GHz and 2.4GHz APs extend coverage, unleashing the best wireless experience for homes with growing number of WiFi devices. In addition, the ability to create multiple WiFi networks with up to 4 SSIDs helps operators easily create separate WLAN networks for video, data and guests.

Triple-Play Powerhouse

The built-in 802.1q port-based VLAN and DHCP features, advanced QoS and IGMP support enable efficient provisioning of voice, video and data services while maintaining high quality of experience (QoE).

TR-69 Remote Provisioning and Management

The EMG3425 supports TR-69 that simplifies remote configuration, upgrade and management thereby reducing cost and improving customer satisfaction. Firmware upgradable to the latest TR-181 data model which enhances service provider visibility in to subscriber's LAN network for improved customer support.

Two-tiered configuration for smart management

The ZyXEL EMG3425 provides two-tiered administration management, so service providers can use two different privilege levels for device configurations. Service providers can retain full management privileges while releasing partial administration rights for subscribers via a user-friendly configuration portal.

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

EMG3425:
AC2200, High-Power,
Managed WiFi
Ethernet Gateway



Specifications

System Specifications

Wireless Standard

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

Wireless Transfer Rate

- Transmit:
 - 450 Mbps* for 2.4 GHz
 - 1733 Mbps* for 5 GHz
- Receive:
 - 450 Mbps* for 2.4 GHz
 - 1733 Mbps* for 5 GHz

Wireless Security

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

WLAN Features

- MU-MIMO Support
- 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

VLAN

- 802.1q tag/tag based VLAN
- VLAN to ETH port mapping
- Bridged/routed VLAN support

Management

- Bandwidth management QoS
- 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

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 antenna x 7: 3 for 2.4 GHz; 4 for 5 GHz

Button:

- Power on/off
- Wireless on/off
- LED on/off
- WPS
- Reset
- Power 12V DC, 3A
- Power consumption: 30 watt max.

Physical Specifications

- Item dimensions (WxDxH): 260.4 x 168.6 x 43.5 mm (10.25" x 6.64" x 1.71")
- Item weight: 590 g (1.3 lb.)
- Packing dimensions (WxDxH): 280 x 202 x 96 mm (11.02" x 7.95" x 3.78")
- Packing weight: 1,140 g (2.51 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

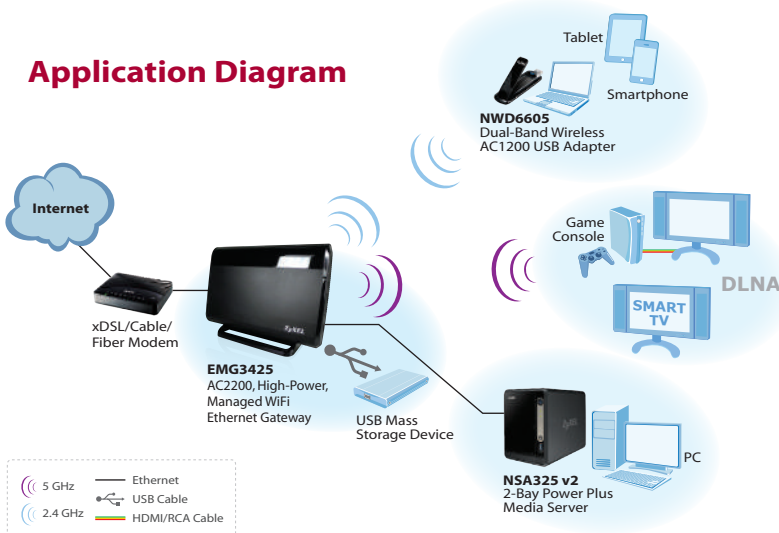
- Safety: CE-LVD
- EMC: CE, FCC, IC

Package Contents

- Wireless router
- Power adapter
- Ethernet cable
- Quick start guide

*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



VLAN for Triple Play Services

