

# ZyXEL



## Ultra-Fast Gigabit Router for Effortless HD Media Streaming

AC 1200

- **Dual-Band technology supporting concurrent data transfer rates of up to 300 Mbps\* for 2.4 GHz and 867 Mbps\* for 5 GHz which is up to 3 times faster than 802.11n**
- **Powerful built-in amplifiers with external antennas designed for maximum Wi-Fi coverage**
- **Easy management of your network with parental control and domain blocking through the network map**
- **ZyXEL zConfig app facilitates easy configuration and management**
- **Advanced QoS with special prioritization ensures smooth multimedia streaming**
- **DLNA support for easy sharing of your files around the house**
- **Simple mass storage sharing via USB ports**
- **WPS button for quick, easy wireless security setup**
- **Free online firmware upgrade service for convenient feature enhancements**
- **Eco-friendly wireless scheduling and power on/off switch saves energy**

The ZyXEL NBG6616 Simultaneous Dual-Band Wireless AC1200 Media Router uses the latest AC technology to deliver concurrent transfer rates of up to 300 Mbps\* for 2.4 GHz and 867 Mbps\* for 5 GHz. The dual-band network allows home users to enjoy an enhanced streaming and file-sharing experience with wider coverage and faster transfer speeds.

### Benefits

#### Dual-band Wireless AC1200 Media Router with speeds up to 300+867 Mbps

Today's high-speed mobile media devices demand more from wireless network hardware. The ZyXEL NBG6616 supports high-performance wireless networking of up to 1200 Mbps\* when connecting to mobile devices supporting both 802.11n and 802.11ac for media streaming. The NBG6616 delivers high-quality full-HD video to multiple users over the less-crowded 5 GHz band for smooth playback with low latency.

#### Easy management with parental control and domain blocking

Easily set up and manage your home network devices with the ZyXEL NBG6616. You can control the bandwidth, restrict individual devices's Web access and parents can schedule the times at which Internet browsing is permitted on individual devices.

#### ZyXEL zConfig app facilitates easy configuration and management

The mobile computing revolution means we expect more convenience from our devices. The zConfig app delivers just that by allowing you to manage a router's settings directly from your mobile device without having to log in from a browser window on your PC. An elegant, easy-to-use interface gives users easy access to all main features of the app.

#### Advanced Quality of Service (QoS) ensures smooth multimedia streaming

Nobody likes having their media experience interrupted by choppy streaming. The ZyXEL NBG6616 QoS feature avoids this by prioritizing bandwidth usage to optimize multi-stream HD video, gaming, IP voice services and Web browsing. It improves the flow of critical network traffic—particularly useful with devices like VoIP phones or when used on high-volume networks.

#### Easy security setup

With the NBG6616's Wi-Fi Protected Setup (WPS), protecting your wireless network is as simple and fast as one button click. An Easy Mode allows for basic setup and system configuration, quickly establishing an encrypted connection with client devices.



**NBG6616**  
Simultaneous  
Dual-Band Wireless  
AC1200 Media Router



Parental Control



QoS for  
Prioritized  
Application



Concurrent  
Dual-Band



Inactive Link  
Detection



Cable Length  
Detection



Wireless  
Output  
Management



### Specifications

#### System Specifications

##### Wireless Standard

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

##### Wireless Transfer Rate

- Transmit:
  - 300 Mbps\* for 2.4 GHz
  - 867 Mbps\* for 5 GHz
- Receive:
  - 300 Mbps\* for 2.4 GHz
  - 867 Mbps\* for 5 GHz

##### Wireless Features

- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)
- Wireless scheduling
- Wireless output power management

##### Routing

- Network Address Translation (NAT)
- WAN connection type: static IP, DHCP, PPPoE
- Port forwarding, port triggering, DMZ
- DHCP server/client
- IGMP v1/v2
- Dynamic DNS
- Protocol-based QoS
- Auto-IP change
- IPv6

##### VPN Pass-through

- IPSec/PPTP/L2TP

##### Firewall

- Deny of Service (DoS) prevention

#### System Management

- HTTP, Telnet
- Diagnostic logs
- Online firmware upgrade

#### Wireless Security

- 64/128 bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK
- MAC address filtering

#### 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
- Two USB 2.0 ports
- LED indicators:
  - Power
  - WAN
  - LAN (1 - 4)
  - WLAN (2.4 GHz)
  - WLAN (5 GHz)
  - WPS
  - USB (1 - 2)
- Two fixed external antennas
- Button:
  - Wireless on/off button
  - Power on/off button
  - WPS button
  - Reset button
- Power: 12 V DC, 2 A
- Power consumption: 24 watt

#### Physical Specifications

- Item dimensions (WxDxH): 180 x 30 x 120 mm ( 7.32" x 1.18" x 4.72")
- Item weight: 375 g (0.83 lb.)
- Packing dimensions (WxDxH): 275 x 196 x 100 mm (10.82" x 7.71" x 3.94")
- Packing weight: 750 g (1.66 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

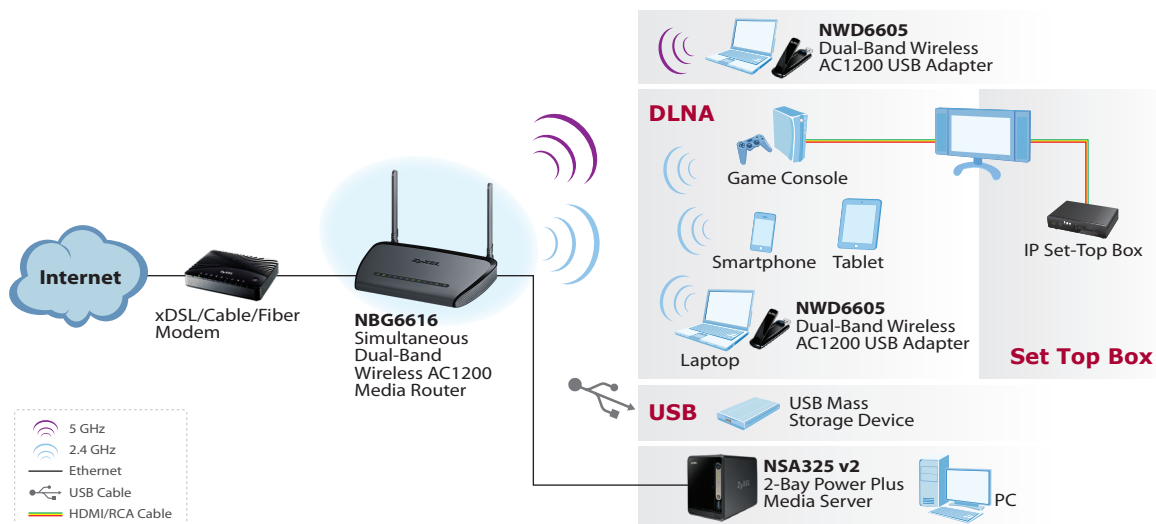
- Safety: CE-LVD
- EMC: CE, FCC, BSMI

#### Package Contents

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

\*The maximum wireless data transfer rate is derived from IEEE Standard 802.11 specifications. Actual data transfer rate will vary by network environment including: distance, network traffic, building materials/ construction, interference from other wireless devices, and other adverse conditions.

### Application Diagram



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



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