

# ZyXEL



## Cloud Media Stream, Cloud HD Boost

AC 1750

- Compliant with 802.11ac with concurrent data transfer rates of up to 450 Mbps\* at 2.4 GHz and 1300 Mbps\* at 5 GHz
- Up to 3 times faster than 802.11n
- True dual networks optimize HD media and Web browsing experience for mobile devices, laptops and desktops simultaneously
- Specialized Smart QoS provides users a better experience for streaming movies, videos and gaming
- DLNA support for easy home media sharing
- Extends wireless coverage with higher radio power
- Simple mass storage sharing via USB ports
- Online firmware upgrade service for convenient feature enhancements
- Eco-friendly, energy-saving wireless scheduling and power on/off switch

The ZyXEL NBG6716 Simultaneous Dual-Band Wireless AC1750 HD Media Router is designed for enabling smoother multimedia streaming through the latest AC technology. With StreamBoost™ support, the Smart QoS intelligently identifies, classifies and manages all the traffics on your home network to dynamically give each application the bandwidth and speed it requires for the best online experience.

### Benefits

#### Latest 802.11ac wireless technology 3 times faster than 802.11n

The ZyXEL NBG6716 provides high-throughput of up to 1300 Mbps\*, 3 times the speed of 802.11n technology at the 5 GHz band. The NBG6716 can deliver high-quality full-HD video to multiple users throughout the house.

#### True dual-band radio optimized for High-quality HD media, gaming and Web browsing

The ZyXEL NBG6716 enables you to enjoy HD video streaming. Users can browse the Web on the 2.4 GHz band while watching HD video or play online games over the less-crowded 5 GHz band with smooth playback and low latency.

#### Specialized Smart QoS for the best movie, video and gaming experience

The ZyXEL NBG6716 adopts Smart QoS that takes advantage of the intelligent StreamBoost™ adaptive routing technology to bring unprecedented performance to home networks. It prioritizes bandwidth usages for optimized multi-stream HD video, gaming, IP voice services and Web browsing through assigning appropriate bandwidths to each application automatically. Smart QoS features an intelligent patent-pending algorithm that handles streams automatically to manage Internet traffic flows without user configuration; and 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.

#### Extend wireless coverage with higher radio power

The ZyXEL NBG6716 features higher radio power to effectively extend the entire wireless coverage throughout the home and in turn eliminate dead spots for you to enjoy HD steaming, gaming and file sharing.



**NBG6716**  
Simultaneous Dual-Band  
Wireless AC1750 HD  
Media Router



11ac up to 3X faster than 11n



Concurrent Dual-Band



Smart Network by StreamBoost™



Wireless Scheduling



Power On/Off Switch



Wireless Switch



Wi-Fi PROTECTED SETUP



### Simple mass storage and DLNA media sharing via USB ports

The ZyXEL NBG6716 allows users to share USB devices over the home network. Just plug USB devices into the NBG6716, and family members throughout the house can enjoy media streaming and file sharing on their PCs, laptops or mobile devices.

### Online Smart QoS update and Firmware Upgrade Service

The ZyXEL NBG6716 provides online firmware upgrades for bug fix or Smart QoS enhancements.

### Green product with wireless control for energy savings

The ZyXEL NBG6716 has green features such as wireless scheduling and an on/off button on the front panel that enables users to toggle wireless access in just seconds—an eco-friendly design for your home network.

## 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 Features

- Router/AP mode
- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)
- Auto channel selection
- Wireless scheduling
- Wireless output power management
- MAC address filtering

#### Routing

- Network Address Translation (NAT)
- WAN connection type: static IP, DHCP, PPPoE
- DHCP server/client
- IGMP v1/v2
- Dynamic DNS
- Bandwidth management
- Smart QoS (StreamBoost™)
- Auto-IP change

#### VPN Pass-through

- IPSec/PPTP/L2TP

#### Firewall

- Deny of Service (DoS) prevention

#### System Management

- Online firmware upgrade
- UPnP

#### Wireless Security

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

#### USB Support

- Mass storage support by SMB/CIFS/FTP

#### Media Server

- DLNA

### 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 indicator:
  - Power
  - WAN
  - LAN (1 - 4)
  - WLAN (2.4 GHz)
  - WLAN (5 GHz)
  - Internet
  - WPS
  - USB (1 - 2)
- High power amplify on 2.4 GHz and 5 GHz
- Internal antennas
- Button:
  - Wireless on/off
  - Power 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
- EMC: CE, FCC

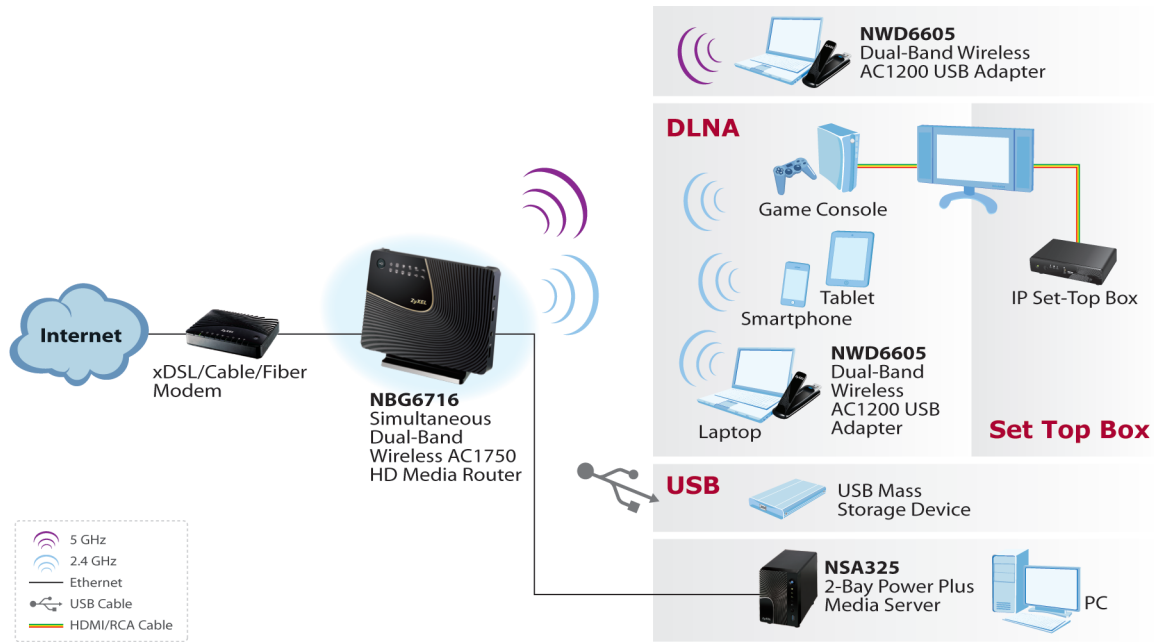
### Package Contents

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

\*The maximum wireless data transfer rates of up to 450 Mbps at 2.4 GHz and 1300 Mbps at 5 GHz in simultaneous transmission are derived from the IEEE Standard 802.11 specifications. Actual data transfer rates may vary from network conditions including: distance, network traffics, building site material/construction, interference from other wireless devices and other adverse factors.



### 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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