



Experience the New HD Home Networking

- Compliant with 802.11ac with dual-band concurrent wireless speeds of up to 750 Mbps*
- True dual networks optimize HD media and Web browsing for simultaneous access from mobile, laptop and desktop devices
- Less-congested 5 GHz bandwidth is ideal for HD video streaming and file sharing
- QoS with special prioritization ensures smooth multimedia streaming
- Convenient online firmware upgrade service for feature enhancements
- Reducing 3G mobile data service costs with the home network.
- Eco-friendly wireless scheduling and power on/off switch that save energy

The ZyXEL NBG6503 Simultaneous Dual-Band Wireless AC750 Home Router enables smoother multimedia streaming with the latest AC technology. The NBG6503 offers concurrent data transfer rates of 300 Mbps for 2.4 GHz and 433 Mbps for 5 GHz for faster simultaneous Internet access from laptop, smartphones and tablets at home.

Benefits

Dual-band support for stable wireless networks

The ZyXEL NBG6503 provides faster, more stable wireless connections for home networks with data transfer rates of up to 750 Mbps* over concurrent dual bands. The latest mobile devices can support AC transfer rates at 5 GHz bandwidth for smooth video streaming and the NBG6503 also offers 2.4 GHz with data transfer rates of up to 300 Mbps* for Web browsing and file transferring at the same time.

QoS provides smooth media streaming

The ZyXEL NBG6503's Quality of Service (QoS) feature provides prioritization of bandwidth usage for highest-quality HD video streaming, gaming and Web browsing.

Easy security setup

The NBG6503 offers a user-friendly interface, including an "Easy Mode" for navigating functions, basic setup and system configuration. It includes a one-click Wi-Fi Protected Setup (WPS) button to establish a secure wireless network within seconds.

Online firmware upgrade service

The ZyXEL NBG6503 provides online firmware upgrade service for updates and enhancements.

Green product with wireless control for energy savings

The ZyXEL NBG6503 is an eco-friendly device just for your home network. The user can press the wireless on/off button on the back panel to toggle wireless access anytime.



NBG6503 Simultaneous Dual-Band Wireless AC750 Home Router



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
 - 433 Mbps* for 5 GHz
- Receive:
 - 300 Mbps* for 2.4 GHz
 - 433 Mbps* for 5 GHz

WLAN Features

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

Routing

- Network Address Translation (NAT)
- WAN connection type: static IP, DHCP, PPPoE, PPTP
- DHCP server/client
- IGMP v1/v2
- Dynamic DNS
- Bandwidth management
- IP/Application port based QoS
- 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
- MAC address filtering

Hardware Specifications

- WAN: One 10/100 Mbps Ethernet RJ-45 port with auto MDI/MDIX support
- LAN: Four 10/100 Mbps Ethernet RJ-45 ports with auto MDI/MDIX support
- LED Indicators:
 - Power
 - WAN
 - LAN (1 – 4)
 - Wireless (2.4 GHz)
 - Wireless (5 GHz)
 - WPS
- Two detachable antennas
- Buttons:
 - Power on/off button
 - Wireless on/off button
 - WPS button
 - Reset button
- Power: 12 V DC, 1 A
- Power consumption: 8 watt max

Physical Specifications

- Item dimensions (WxDxH): 159 x 111 x 23 mm (6.26" x 4.37" x 0.91")
- Item weight: 230 g (0.51 lb.)
- Packing dimensions (WxDxH): 272 x 194 x 60 mm (10.71" x 7.64" x 2.36")
- Packing weight: 500 g (1.1 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
- Two detachable antennas
- Power adapter
- Ethernet cable
- Quick start guide
- Support CD
- Warranty card

*The maximum wireless data transfer rates of up to 300 Mbps at 2.4 GHz and 433 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



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



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