ZYXEL

NBG6604
AC1200 Dual-Band Wireless Router

Create a wireless network for your home to connect more devices wirelessly with faster 11ac technology. The Zyxel NBG6604 AC1200 Dual-Band Wireless Router features four robust external antennas for dedicated 2.4 GHz and 5 GHz wireless bands to provide wider coverage. You'll also find a better experience with our easy, intuitive ONE Connect mobile app.

Benefits

Get faster WiFi along with stronger signals

Upgrade your home network with the Zyxel NBG6604 AC1200 Dual-Band Wireless Router. Equipped with the 802.11ac technology, the NBG6604 boosts wireless speeds to 4 times faster than traditional 11n single-band routers. 802.11ac also provides better WiFi coverage than the traditional 802.11n technology.

The dual-band router AC1200 improves home wireless speed and reduces interference for better connection to more WiFi devices

Four robust external antennas for stable long-range connection

Simple app based set-up with a detailed installation tutorial

Intuitive user interface, easier-to-manage home network

Brand-new design with energy efficiency and thermal system enhancement

Extension flexibility eliminates home WiFi dead spots

Amplified antennas deliver long range connections

The Zyxel NBG6604 comes with four high-gain external antennas with two dedicated antennas per bandwidth (2.4 GHz and 5 GHz). All antennas have two degrees of adjustability; this helps users to find the best signal reception while improving signal coverage and stability instantly. With four 3 dBi Omni antennas, the Zyxel NBG6604 provides a long-range wireless connection for you to enjoy services throughout the home network. You'll enjoy stable, reliable wireless operations for Web browsing, file exchange and multimedia streaming everywhere at home.

Setup and management straight from your mobile device in less than 5 minutes
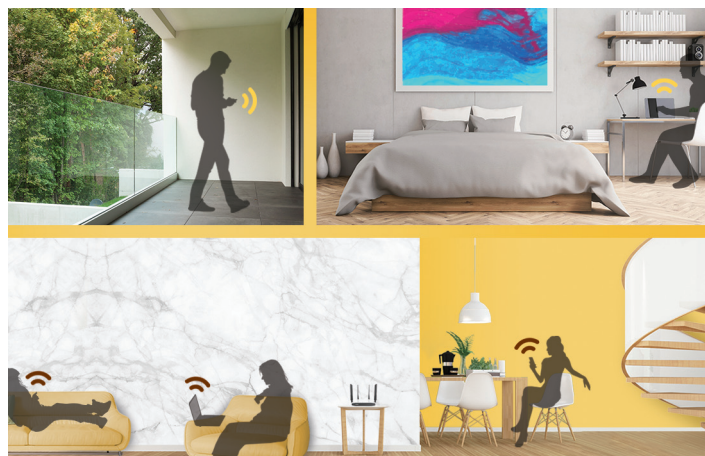
You don't need to log in from your PC to conduct network monitoring any more. Just set up the Internet connection and wireless setting in a straightforward way on your mobile phone.

The Zyxel ONE Connect app enables easy management tasks like setting up device, Internet connection and WiFi configurations. Users can easy take advantage of all main features such as reading installation tutorials, Internet speed tests, enabling guest WiFi settings, scheduling WiFi access and performing one-button upgrades all through an intuitive user interface.

Zyxel ONE Connect

Dual-Band routers reduce interference for better connections to more WiFi devices

The Zyxel NBG6604 dual-band wireless router allows you to create two wireless networks that connect up to 64 devices: one 2.4 GHz network can be used for regular Web browsing, news reading, social networking as well as photo/video/file uploading and downloading, while the other at 5 GHz allows bandwidth-hogging, time-sensitive activities such as HD video streaming or multiplayer online gaming.

Brand new design with energy efficiency and wall mount option available

The Zyxel NBG6604 comes with a compact design and wall-mount placement option to provide users with flexibility to place it in any house corner. Mount our router on an elevated area on your wall to provide maximum WiFi performance and coverage. The NBG6604 consumes relatively low power to significantly save energy, reduces heat and improve stability to avoid throttling issues.

ONE Connect ready for easy expansion

NBG6604 is ONE Connect ready, enabling you to expand your wireless network effortlessly with other ONE Connect ready Zyxel devices including Powerline adapters and wireless extenders. Just download the ONE Connect app from a smartphone or tablet, the app will guide you on extending your WiFi network to those dead spots without any technical hassles!

Specifications

System Specifications

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

Wireless Speed
- 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 Security
- WPA-PSK/WPA2-PSK, WPS

Wireless Features
- Guest WiFi
- WiFi Protected Setup (WPS)
- WiFi Multimedia (WMM)
- Auto channel selection
- Wireless output power management
- Wireless scheduling
- MAC address filtering

Routing
- Network Address Translation (NAT)
- WAN type: Static IP, DHCP, PPPoE
- DHCP server/client
- IGMP v1/v2
- Auto-IP change
- Dynamic DNS

Firewall
- Stateful Packet Inspection (SPI)
- Deny of Service (DoS) Prevention

Application Control
- ONE Connect

System Management
- Online firmware upgrade
- Remote management
- UPnP

Operation Mode
- Router mode
- AP mode

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
- Antenna: 4 external antennas
- LED indicators:
  - Power/SYS
  - WAN
  - WLAN_2.4G
  - WLAN_5G
- Buttons:
  - Reset
  - WPS
- Power: 12V DC, 1A
- Power consumption: 5W

Physical Specifications
- Item dimensions (WxDxH): 202 x 133 x 29 mm (7.95" x 5.24" x 1.14")
- Item weight: 238 g (0.52 lb.)
- Packing dimensions (WxDxH): 240 x 335 x 51 mm (9.45" x 13.19" x 2.01")
- Packing weight: 660 g (1.46 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)
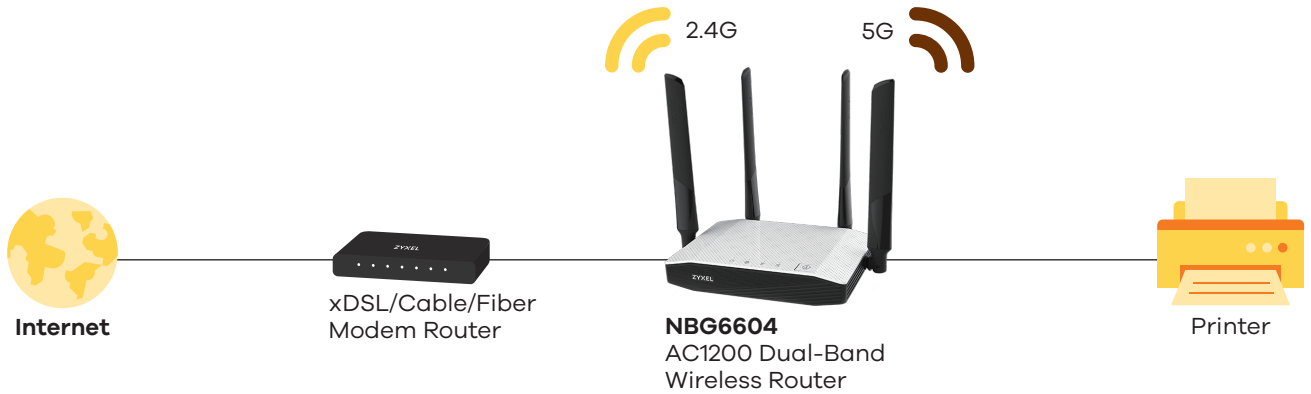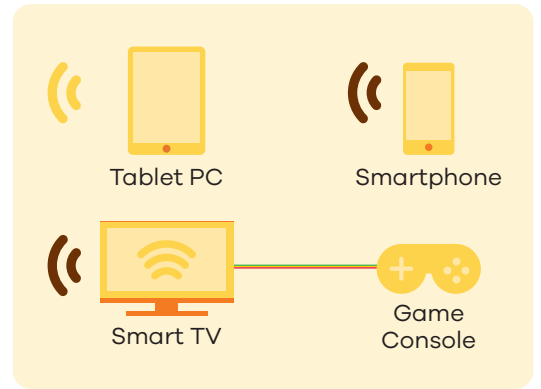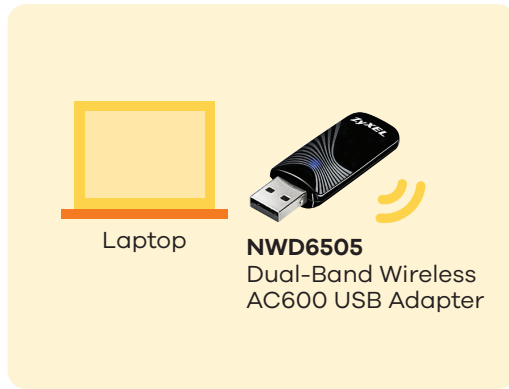
Certifications
- Safety: CE-LVD
- EMC: CE, FCC

Package Contents
- Wireless router
- Power adapter
- Ethernet cable
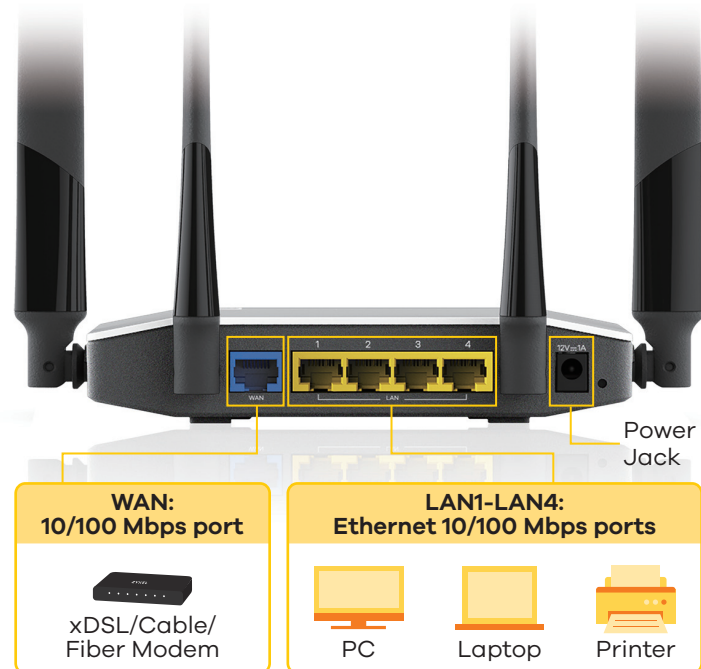- Quick start guide (combined with warranty form)

* The maximum wireless data transfer rates of up to 300 Mbps at 2.4 GHz and 867 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

Legend:
— Ethernet
— HDMI Cable
((WiFi 2.4 GHz
((WiFi 5 GHz

Laptop

NWD6505
Dual-Band Wireless
AC600 USB Adapter

Tablet PC

Smartphone

Smart TV

Game Console

2.4G   5G

Internet

xDSL/Cable/Fiber
Modem Router

NBG6604
AC1200 Dual-Band
Wireless Router

Printer

Rear Panel

1 2 3 4

WAN   LAN   12V⎓1A

Power Jack

WAN:
10/100 Mbps port

xDSL/Cable/
Fiber Modem

LAN1-LAN4:
Ethernet 10/100 Mbps ports

PC   Laptop   Printer

Datasheet NBG6604

5-100-00117009   10/17