NETGEAR®

Nighthawk® X4S AC2600 WiFi VDSL/ADSL Modem Router

Newest Generation of WiFi

WAVE2 WiFi
Quad Stream
& MU-MIMO

The Newest Generation
of WiFi

Nighthawk X4S AC2600 WiFi VDSL/ADSL Modem Router with MU-MIMO and Quad Stream technology delivers WiFi to multiple devices simultaneously for up to 3 times faster speeds. Get ultimate WiFi speeds of up to 2.53 Gbps, with a powerful 1.4GHz dual core processor. Enjoy smoother streaming and gaming by prioritizing application and device with Dynamic QoS.

WIFI VDSL/ADSL Modem Router

- Extreme combined WiFi speed—up to 2.53 Gbps
- Dual core 1.4GHz processor boosts performance for gaming and streaming
- Two-in-One—DSL Modem + AC2600 WiFi Router
- One device saves space, less wiring, smaller footprint
- Auto Detection for Universal DSL Support
- Open Source support on www.myopenrouter.com
- Gigabit Ethernet WAN port provides universal compatibility with any Internet service
- Compatible with VDSL, VDSL2, ADSL, ADSL2, & ADSL2+
- Works with DSL ISPs like (check with your country's providers)

Streaming & Gaming

- Multi-user MIMO (MU-MIMO) gives you faster speeds with simultaneously streamed data for up to three devices
- Quad Stream WiFi—Up to four data streams per WiFi band maximizes connection speed
- Dynamic QoS prioritizes Internet traffic by application & device for lag-free gaming & smoother streaming
- Beamforming+ for improved WiFi coverage
- Connect USB 3.0 & eSATA storage devices to store & stream your own media
- Find & play your stored media on TVs and game consoles using the built-in DLNA®-ready server

Mobile

- Quad Stream Wave 2 WiFi increases WiFi range for mobile devices
- Multi-user MIMO (MU-MIMO) for simultaneous streaming to mobile devices
- Powerful amplifiers and four high-performance antennas increase WiFi range
- EZ Mobile Connect—Scan a QR code & connect to WiFi securely
- NETGEAR genie®—now with remote access to manage your network away from home
- Turbo Transfer allows sharing of files between PC, Mac or Android® devices
- Enhanced Parental Controls—Manage website access by family member and device
- Secure access to home router from anywhere using OpenVPN Connect Apps

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Speed

Get the fastest WiFi currently available & enjoy a blazing-fast, lag-free WiFi experience for gaming, video streaming or surfing.

WORLD'S FASTEST WIFI—Up to 2.53 Gbps†

GIGABIT WIFI—Next-generation WiFi now at Gigabit speeds

GIGABIT WIRED—Ideal for HD gaming & video

DUAL CORE PROCESSOR—Dual core 1.4GHz processor boosts wireless, wired & WAN-to-LAN performance

CABLE OR FIBER—Also connects to cable modem or Fiber network via Gigabit Ethernet WAN port

VDSL MODEM—Compatible with VDSL, VDSL2, ADSL, ADSL2, & ADSL2+

WiFi Range

Got range? Homes come in all shapes and sizes and the Nighthawk X4S AC2600 WiFi VDSL/ADSL Modem Router provides WiFi coverage no matter where you connect in your home.

ULTIMATE RANGE—WiFi coverage throughout very large homes

ANTENNAS—High-performance amplifiers with 4 external antennas

Sharing

With NETGEAR, sharing across your network is fun and easy, anything from accessing stored photos & music to wireless printing. And make sure you keep it safe by using the included ReadySHARE Vault application for backing up Windows-based PCs.

DLNA®—Find & play your media on DLNA TVs & game consoles

READYSHARE® USB ACCESS—Wirelessly access & share USB hard drive & printer via two (2) USB ports

eSATA—One (1) eSATA port for storing and streaming

TWO SUPERSPEED USB 3.0 PORTS—Up to 10x faster than USB 2.0

MU-MIMO—Multi-user MIMO enables simultaneous streaming to mobile devices

READYSHARE PRINTER—Wirelessly access & share a USB printer

Reliable Connections

There's nothing more frustrating than lost connections! With NETGEAR's advanced features & best-in-class technology, you'll reduce interference & enjoy more reliable WiFi connectivity.

QUAD STREAM—Quad Stream Wave 2 WiFi increases WiFi range for mobile devices

DYNAMIC QoS—Delivers bandwidth prioritization by application & device

BEAMFORMING+—Boosts speed, reliability, & range of WiFi connections

Ease Of Use

Start enjoying your new device faster than ever. NETGEAR wants to make sure installation and management is simple & easy, so you can connect quickly & make sure you stay that way!

EASY INSTALL—Easy setup for iPad®, tablets, smartphones & computers

NETGEAR GENIE® APP—Personal dashboard to monitor, control & repair your home network, anytime & from anywhere with remote access

PUSH 'N' CONNECT—Easy push button WiFi connections (WPS)

WIFI & POWER ON/OFF—Convenient power savings

Security

Maintain high security across your network to ensure your privacy & family is safe while online. Whether it's preventing phishing & spyware or just limiting access for kids & guests, NETGEAR has you covered.

VPN SUPPORT—Secure access to home router from anywhere using OpenVPN Connect Apps

ENHANCED PARENTAL CONTROLS—Manage website access by family member and device

GUEST NETWORK ACCESS—Separate & secure access for guests

SECURE WIFI CONNECTIONS—High level wireless security with WPA/WPA2

PERSONAL FTP SERVER—Customized free URL to create FTP server

Multi-User MIMO (MU-MIMO)

Traditional WiFi routers can stream data to only one device in the home at a time. When multiple devices are connected to the router, each device needs to take its turn, and then wait before receiving more data. This can lead to slower network and Internet speeds. Using Multi-User MIMO technology, NETGEAR routers can stream data to multiple devices simultaneously. With MU-MIMO, your WiFi network can deliver faster throughput to every MU-MIMO connected device. That means faster downloads and smoother streaming for your devices.

Enjoy simultaneous streaming with MU-MIMO

Data sent to one device at a time

Data sent to multiple devices simultaneously
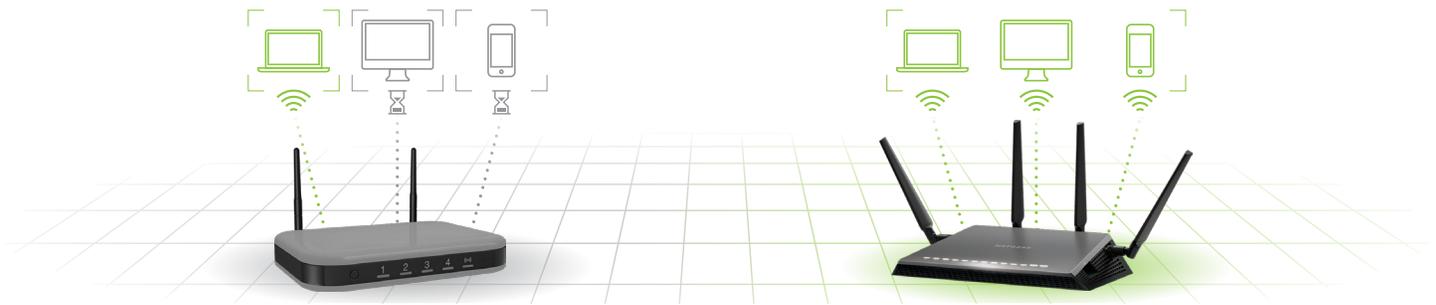
Dynamic Quality of Service (QoS)

If you like gaming and streaming videos, then you can benefit from Dynamic Quality of Service (QoS).

Dynamic QoS automatically prioritizes bandwidth to latency sensitive applications like online gaming and video streaming by recognizing application and device information as well as bandwidth needs. Dynamic QoS will also ensure that lower priority applications like file downloads will never get completely stopped.

Applications have same priority

Automatically recognizes & prioritizes applications

Netflix | Download | Facebook | Spotify | Game

High Priority | **Medium Priority** | **Low Priority**

Game | Netflix | Spotify | Facebook | Download

Traditional WiFi

Dynamic QoS
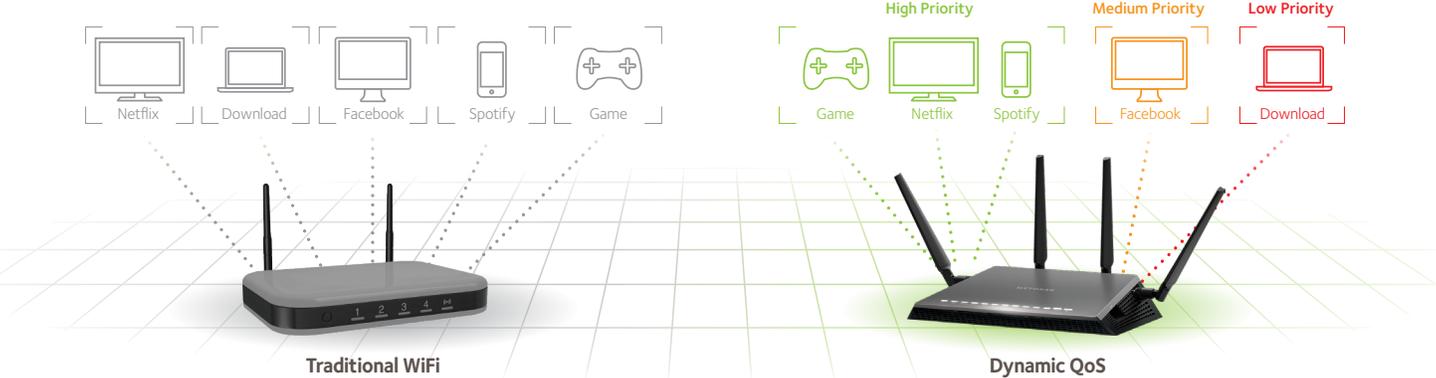
## Powerful Dual Core 1.4GHz Processor for Faster Processing

Basic WiFi routers use simple single core processors to connect WiFi devices to the Internet.

Nighthawk X4S delivers a high-speed DSL modem combined with simultaneous dual-band WiFi, Quad Stream performance on each band, Multi-User MIMO, has 5 Gigabit LAN ports, and 1 eSATA and dual USB 3.0 interfaces to connect external USB storage. Using a single core processor would cause severe performance issues as various processes compete for CPU power. That's why the X4S utilizes a powerful 1.4GHz dual core processor to separate processes and prioritize high-performance WiFi connections to get maximum combined WiFi speeds up to 2.53Gbps and still has room to handle advanced features such as Dynamic QoS.

Single Core Processor

Dual Core 1.4GHz Processor

Typical Router — 600Mbps

1.4GHz 1.4GHz — Nighthawk X4S
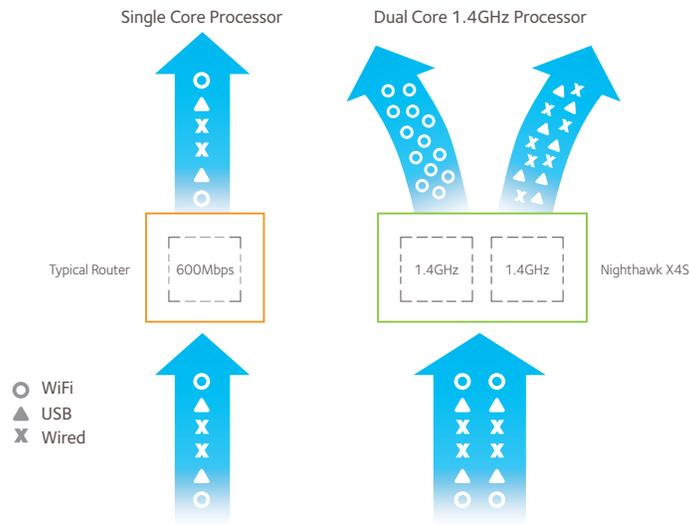
○ WiFi
▲ USB
✕ Wired

Quad Stream WiFi — Better WiFi, the Industry's Latest Technology

Nighthawk X4S AC2600 WiFi VDSL/ADSL Modem Router

433 Mbps
433 Mbps
433 Mbps
433 Mbps

5GHz Band
4x4
1.73 Gbps WiFi Speed

200 Mbps
200 Mbps
200 Mbps
200 Mbps

2.4GHz Band
4x4
800 Mbps WiFi Speed
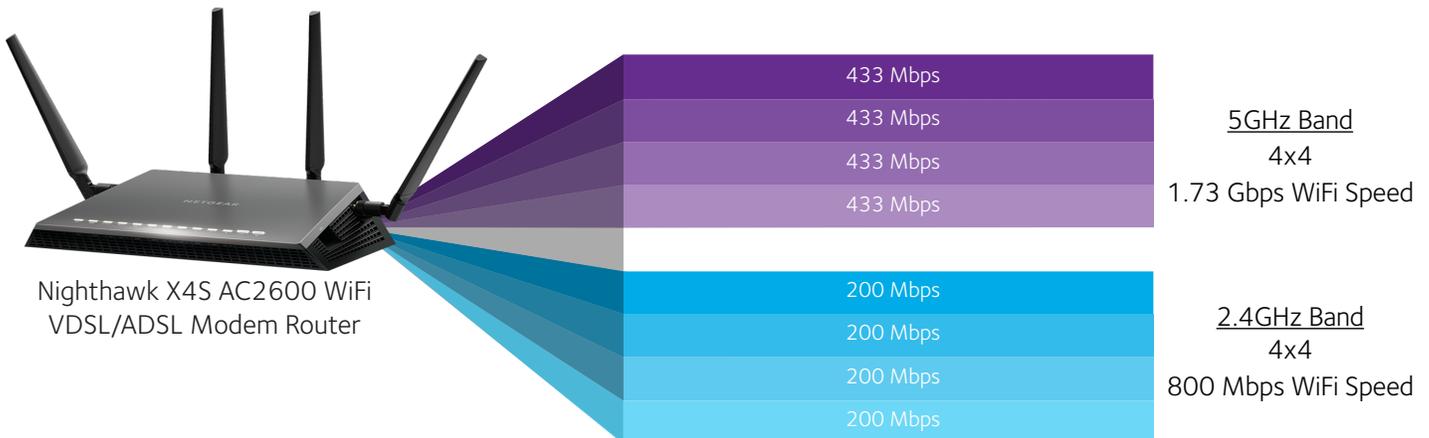
BEAMFORMING+

For more reliable connections.

BEAMFORMING+—FOR MORE RELIABLE CONNECTIONS

Unlike typical Wi-Fi routers that just blast the Wi-Fi signals in all directions, with Beamforming+ the router & device communicate with each other, so the router can directly beam the Wi-Fi signal to the device. The result is a stronger, faster, more reliable connection that is locked in even when the device is moved around the home.

- Focuses WiFi signals from the wireless router to WiFi devices like smartphones, tablets & laptops
- Automatic signal management checks with your device to keep WiFi signal at its optimal strength
- Designed for home environments to support multiple WiFi device connections for highest quality
- Extends WiFi coverage, reduces deadpots, & boosts signal strength

NETGEAR genie®—HOME NETWORKING SIMPLIFIED

NETGEAR genie makes getting the most out of your home network fun & easy. Installation is almost effortless - just by opening a browser, genie helps you setup your NETGEAR WiFi Router & connect all of your WiFi devices. Genie also allows you to easily monitor, connect & control your home network from a PC, Mac, tablet or smartphone. With NETGEAR genie you can share & stream music or videos, diagnose & repair network issues, set up parental controls & more.

- Home network manager
- Now with remote access to manage your network away from home
- Network Map—Real-time map of all the connected devices on your network
- Makes any printer AirPrint® compatible to print from an iPad® or iPhone®
- MyMedia®—Find & play media files in your network
- EZ Mobile Connect—Scan QR code to connect to your home network
- Turbo Transfer—Quickly transfer files within your home network across various devices 40% faster than normal file transfers
- For PC, Mac®, iPhone®, iPad®, & Android® devices

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Connection Diagram

Push 'N' Connect with WPS (front)

WiFi On/Off (front)

Gigabit Ethernet connects to Cable or Fiber Modem

eSATA

USB 3.0 x2

Gigabit Wired

Connects to telephone line (built-in modem)

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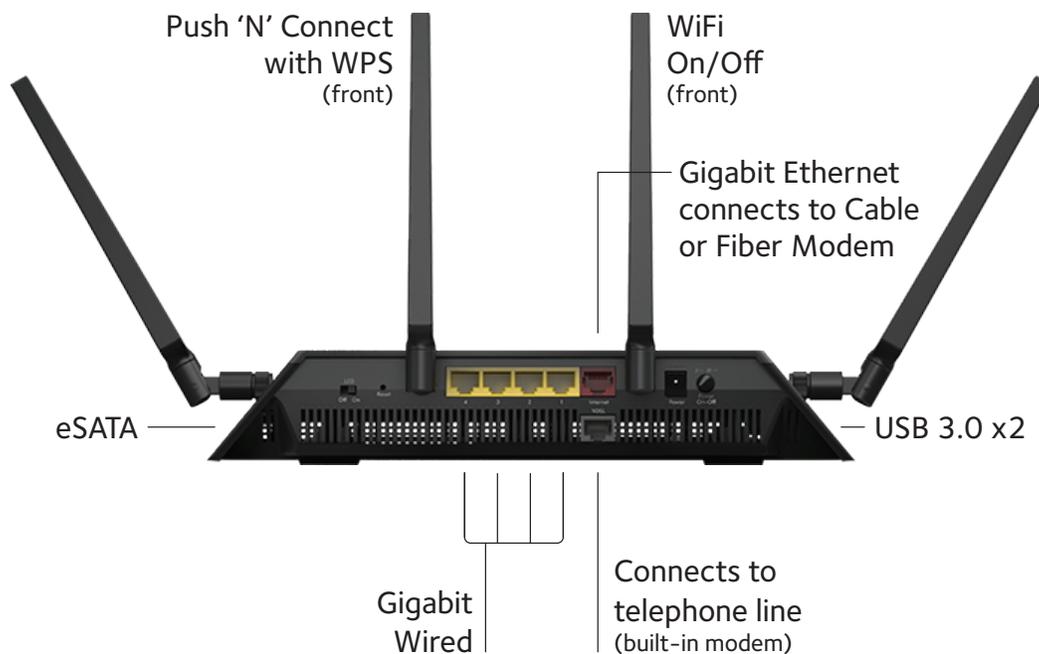
PACKAGE CONTENTS

- Nighthawk X4S AC2600 WiFi VDSL/ADSL Modem Router (D7800)
- Ethernet cable
- Phone cable
- DSL filter
- Quick start guide
- Power adapter, localized to country of sale

PHYSICAL SPECIFICATIONS

- Dimensions: 285 x 185 x 50 mm (11.22 x 7.26 x 1.97 in)
- Weight: 840 g (1.85 lb)

STANDARDS

- One (1) eSATA port
- Two (2) USB 3.0 ports
- One (1) VDSL/ADSL port
- IEEE® 802.11 b/g/n 2.4GHz + 256 QAM support
- IEEE® 802.11 a/n/ac 5.0GHz
- Five (5) 10/100/1000 Mbps—(1 WAN & 4 LAN) Gigabit Ethernet ports

TECHNICAL SPECIFICATIONS

- High-speed VDSL2/ADSL2+ modem built-in
- AC2600 (800 Mbps @2.4GHz—256QAM support + 1733 Mbps @5GHz 11ac)†
- MU-MIMO support for simultaneous streaming
- Quad Stream Wave 2 WiFi
- Four (4) high-performance external antennas
- Dynamic QoS intelligently prioritizes video streaming & gaming
- Beamforming+ for more reliable connections
- Powerful dual-core 1.4GHz processor
- Memory: 128 MB flash and 512 MB RAM
- ReadyCLOUD® USB Access—Enjoy personal & secure cloud access to USB storage
- ReadySHARE® USB to share your USB hard drive & printer
- Enhanced Parental Controls to manage web filtering & accessibility by profiles or devices
- IPv6 support (Internet Protocol Version 6)
- On/off LED light switch

SUPPORT

- 24/7 90-day complimentary technical support*

BROADBAND INTERNET SERVICE

- VDSL/ADSL broadband Internet service
- Cable or Fiber: Connects to cable modem via Gigabit Ethernet WAN port

SYSTEM REQUIREMENTS

- Microsoft® Windows 7, 8, 10, Vista®, XP®, 2000, Mac OS®, UNIX®, or Linux®
- Microsoft® IE 9.0, Firefox® 4.0, Safari® 6.2.6, or Google Chrome® 11.0 browsers or higher

SECURITY

- Customized free URL to set up personal FTP server
- OpenVPN Connect app on iOS and Android to allow remote secure access to the home network
- Guest network access—separate & secure
- WiFi Protected Access® (WPA/WPA2—PSK)
- Double firewall protection (SPI and NAT)
- Denial-of-service (DoS) attack prevention

WARRANTY

- www.netgear.com/warranty

SCAN TO LEARN MORE