

**NIGHTHAWK®**

Nighthawk® X4S AC2600 Smart WiFi Router



## Leading the New Era of WiFi

Nighthawk® X4S AC2600 Smart WiFi Router with 160MHz, MU-MIMO, and Quad Stream technology delivers WiFi to multiple

devices simultaneously for faster speeds. Get ultimate WiFi speeds of up to 2.53Gbps, with a powerful 1.7GHz dual-core processor. Enjoy

smoother streaming and gaming by prioritizing application and device with Dynamic QoS.

**NETGEAR®**

# NIGHTHAWK®

## Nighthawk® X4S AC2600 Smart WiFi Router

### GAMING | FOR THE WIN

Avoid character freezing & enjoy lag-free gaming with extreme 11AC speed & performance. Nighthawk delivers AC2600 WiFi, a powerful dual core 1.7GHz processor, & MU-MIMO for simultaneous streaming with multiple devices. When microseconds count, let Nighthawk accelerate your game. For the win.



### STREAMING | ULTIMATE HD

Stop buffering and start enjoying uninterrupted streaming media for everyone in your home. Nighthawk X4S delivers the single fastest available WiFi connection to any one device, up to 1.73Gbps, and a total of 2.53Gbps. 160MHz support makes it easier to stream 4K content in pristine quality. With Quad Stream X4S Architecture you'll enjoy the ability to stream multiple HD videos at the same time. Dynamic QoS prioritizes your WiFi bandwidth by application, such as Netflix as well as by device for smoother streaming. Stream your own media by connecting USB 3.0 or eSATA storage devices and access it from anywhere.



### MOBILE | FASTER & FARTHER

Double the bandwidth with 160MHz support and dramatically increase WiFi range for mobile devices with Quad Stream X4S Architecture. MU-MIMO gives you faster speeds with simultaneously streamed data for multiple devices. Beamforming+ boosts speed and range, while Dynamic QoS bandwidth prioritization optimizes your Internet speed for gaming and streaming. Powerful amplifiers and four high-performance external antennas give you greater WiFi range throughout large homes and even backyards.



## Speed

Get super fast WiFi & enjoy a blazing-fast, lag-free WiFi experience for gaming, video streaming or surfing.



**EXTREMELY FAST WIFI**—Up to 2.53Gbps†



**GIGABIT WIFI**—Next-generation WiFi now at Gigabit speeds



**MU-MIMO**—Go faster by simultaneously streaming to multiple devices



**GIGABIT WIRED**—Ideal for HD gaming & video



**DUAL-CORE PROCESSOR**—Dual-core 1.7GHz processor boosts wireless, wired & WAN-to-LAN performance

## WiFi Range

Faster and expanded coverage throughout your home and for all your devices.



**ULTIMATE RANGE**—WiFi coverage throughout very large homes



**HIGH-POWER ANTENNAS**—High-power amplifiers with 3 external antennas

## Sharing

With NETGEAR, sharing across your network is fun and easy, such as accessing stored photos & music.



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



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



**ONE SUPERSPEED USB 3.0 PORT**—Up to 10x faster than USB 2.0

### 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.



**BEAMFORMING+**—Boosts speed, reliability, & range of WiFi connections for 2.4 & 5GHz bands



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



**DYNAMIC QoS**—Dynamic QoS automatically recognizes & prioritizes streaming & gaming applications

### 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!



**NIGHTHAWK APP**—Easily set up your router and get more out of your WiFi. Includes access from anywhere to manage your network away from home



**VOICE CONTROLLED BY AMAZON ALEXA**—Control your NETGEAR WiFi network with simple voice commands

### Security

Ensure your privacy & keep your family safe while online. NETGEAR has you covered.



**VPN SUPPORT**—OpenVPN Connect app on iOS and Android® allows remote secure access to the home network



**SECURE WIFI CONNECTIONS**—Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)



**GUEST NETWORK**—Separate and secure network for your guests



**AUTOMATIC FIRMWARE UPDATE**—Delivers latest security patches to the router



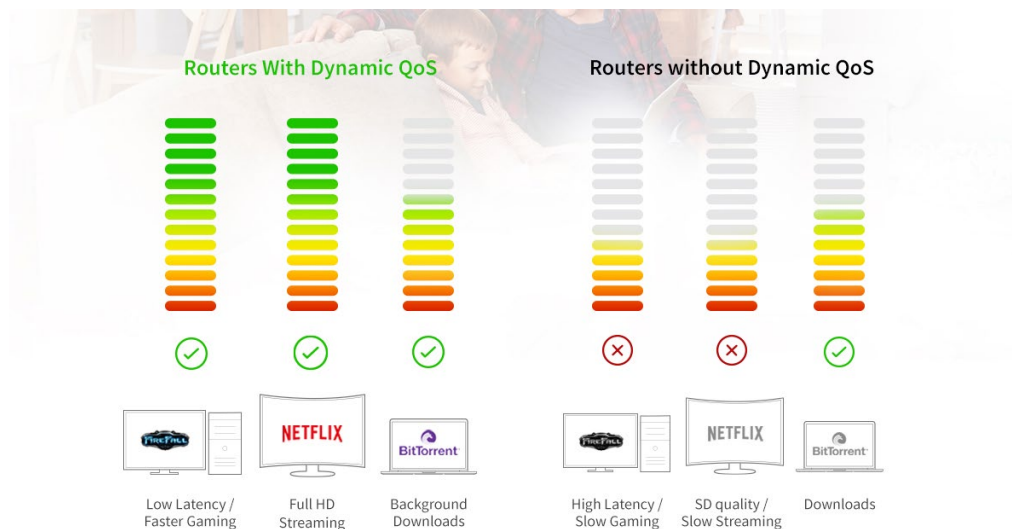
**PERSONAL FTP SERVER**—Customized free URL to create FTP server

# NIGHTHAWK®

## Nighthawk® X4S AC2600 Smart WiFi Router

### Dynamic Quality Of Service

If you like gaming and streaming videos, then you'll benefit from Dynamic Quality of Service (QoS). Dynamic QoS resolves Internet traffic congestion when you have competing Internet demands at home. Dynamic QoS identifies your online activities by application and device, and then utilizes bandwidth allocation, and traffic prioritization techniques, to automatically allocate more bandwidth to latency sensitive applications like online gaming and video streaming, while ensuring that lower priority applications continue to work.



### Nighthawk® App

The NETGEAR Nighthawk® App makes it easy to set up your router and get more out of your WiFi. With the app, you can install your router in a few steps—just connect your mobile device to the router network and the app will walk you through the rest. Once set up, you can use the intuitive dashboard to pause the Internet on your connected devices, run a quick Internet speed test, and much more.

- Anywhere Access—Easily monitor your home network anytime, anywhere
- Internet Speed Test—Check the broadband speeds from your service provider
- Pause Internet—Pause the Internet to any device
- Traffic Meter—Track Internet data usage
- Guest Networks—Setup separate WiFi access for guests
- Quick Setup—Get connected in just minutes
- Get it at [nighthawk-app.com](http://nighthawk-app.com)



### 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



Traditional WiFi

Data sent to multiple devices simultaneously



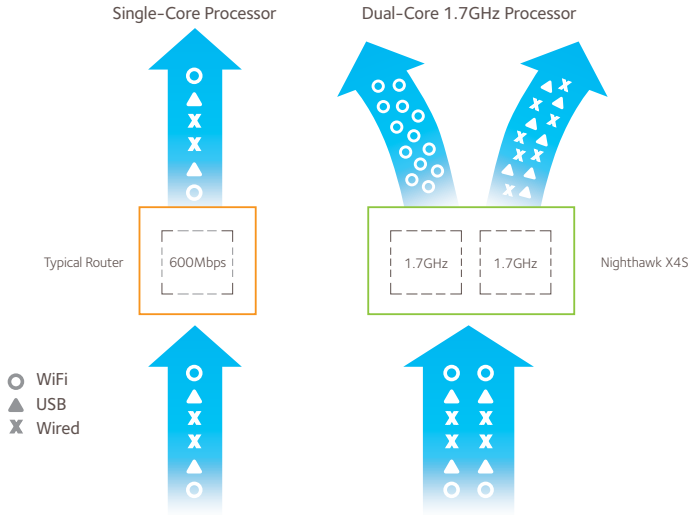
MU-MIMO WiFi

### Powerful Dual-core 1.7GHz Processor for Faster Processing

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

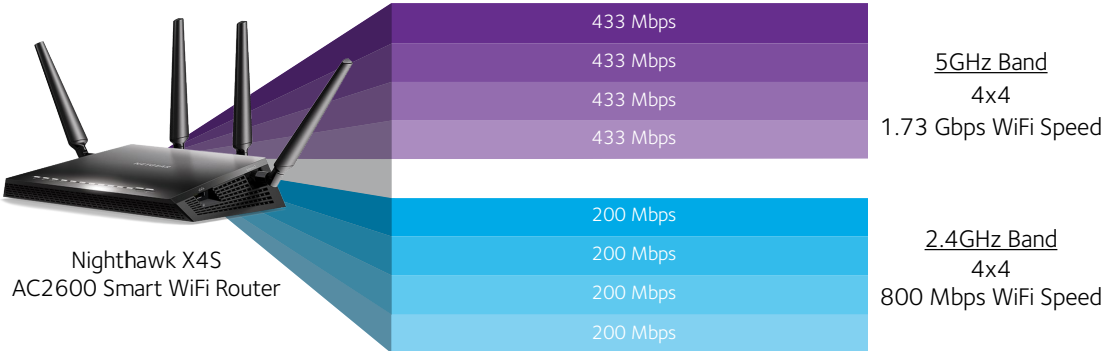
Nighthawk X4S delivers simultaneous dual band WiFi, Quad-Stream performance on each band, Multi-user MIMO, 160MHz, has 5 Gigabit LAN ports, and 1 eSATA and dual USB 3.0 interfaces to connect external USB storage. Using a single-core processor would cause severe performance issues as various processes compete for CPU Power.

That's why the X4S utilizes a powerful 1.7GHz dual-core processor to separate processes and prioritize high-performance WiFi connections to get maximum combined WiFi speeds of up to 2.53Gbps and still has room to handle advanced features such as Dynamic QoS.



### Quad Stream X4 Architecture

Better WiFi, the Industry's Latest Technology



### Connection Diagram



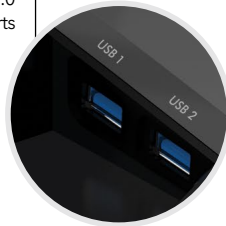
WiFi on/off | Push 'N' Connect with WPS



eSATA port | LED on/off | Gigabit Ethernet | Internet | USB 3.0 ports



Side view of product port locations





# NIGHTHAWK®

## Nighthawk® X4S AC2600 Smart WiFi Router

### Package Contents

- Nighthawk X4S AC2600 Smart WiFi Router (R7800)
- Ethernet cable
- 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: 840g (1.85lb)

### Technical Specifications

- AC2600 (800Mbps @2.4GHz–256-QAM support +1733Mbps @5GHz 11ac)<sup>†</sup>
- Simultaneous dual band WiFi - Tx/Rx 4x4 (2.4GHz)+ 4x4 (5GHz)
- 4x4 11ac 80MHz + 2x2-160/80+80MHz
- Multi-user MIMO (MU-MIMO)
- Powerful dual-core 1.7GHz processor
- Four (4) high-performance external antennas
- Memory: 128MB flash and 512MB RAM
- IPv6 support (Internet Protocol Version 6)
- On/off LED light switch

### Standards

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

### Key Features

- Nighthawk® App—Easily set up your router and get the most out of your WiFi
- Quad Stream & 160MHz for faster speeds
- MU-MIMO support for simultaneous streaming
- Dynamic QoS intelligently prioritizes video streaming & gaming
- Beamforming+ for more reliable connections
- USB 3.0 & eSATA ports to connect storage devices to store & stream your own media
- ReadySHARE® USB—Share your USB hard drive
- Nighthawk® App—Easily set up your router and get more out of your WiFi. Includes access from anywhere to manage your network away from home
- Alexa Voice Control—Use Amazon Alexa™ and the NETGEAR Skill to control your network with simple voice commands
- Additional DFS channels (15 more channels) in 5GHz for interference free gaming experience

### System Requirements

- Microsoft® Windows 7, 8, 10, Vista®, XP®, 2000, Mac OS®, UNIX®, or Linux®
- Microsoft® Internet Explorer® 5.0, Firefox® 2.0, Safari® 1.4, 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
- Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)
- Double firewall protection (SPI and NAT)
- Denial-of-service (DoS) attack prevention
- Automatic firmware update delivers latest security patches to the router

### Warranty

- [www.netgear.com/warranty](http://www.netgear.com/warranty)
- Extend your warranty & technical support within 90 days of product purchase [US only]. Visit: [prosupport.netgear.com/home](http://prosupport.netgear.com/home)

### Support

- 90-day complimentary technical support following purchase from a NETGEAR authorized reseller
- Join the NETGEAR Community Forum. Visit <http://community.netgear.com>

This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller.

\* 90-day complimentary technical support following purchase from a NETGEAR authorized reseller.

<sup>†</sup> Maximum wireless signal rate derived from IEEE 802.11 specifications. Actual data throughput and wireless coverage will vary and may be lowered by network and environmental conditions, including network traffic volume and building construction. NETGEAR makes no representations or warranties about this product's compatibility with future standards. Up to 2600Mbps wireless speeds achieved when connecting to other 802.11ac 2600Mbps devices.

<sup>‡</sup> MU-MIMO capability requires both router and client device to support MU-MIMO.

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