

**NIGHTHAWK®**

Nighthawk® X6S-AC4000 Tri-Band WiFi Router



## Performance & Use

Nighthawk® X6S-AC4000 Tri-Band WiFi Router is powered by high-power amplifiers and antennas to extend your WiFi coverage. Blazing-fast combined WiFi speeds up to 4.0Gbps<sup>†</sup> and 1.8GHz dual-core processor for extended range. Smart Connect intelligently

selects the fastest 2.4 or 5GHz WiFi band for each device in your home for optimal speeds. Stop buffering and start enjoying ultra-smooth streaming, online gaming, and more. With NETGEAR Armor™, you get multi-layered cybersecurity for an unlimited

number of devices that provides encrypted connections, keeps your online activity private, secures lost or stolen devices, and blocks suspicious devices on your network. Manage content and time online with Circle® Smart Parental Controls.

**NETGEAR®**

# NIGHTHAWK®

## Nighthawk® X6S–AC4000 Tri-Band WiFi Router

### GAMING | FOR THE WIN

You need the best when you're taking on the online gaming world. The Nighthawk® X6S is the pro gaming choice and the latest in AC4000 speed and performance. Powerful dual-core 1.8GHz processor and three offload processors provide WiFi speeds up to 4.0Gbps. Nighthawk's Tri-Band WiFi ends game-lag and multiplies the intensity of immersive, uninterrupted, online gaming while Dynamic QoS prioritizes Internet traffic by application & device.



### STREAMING | ULTIMATE HD

Nighthawk X6S multiplies the entertainment factor for everyone in your home. Seamless, simultaneous streaming for multiple devices is now a reality thanks to powerful Tri-Band WiFi and features like Smart Connect and Beamforming+—it's the end of buffering, jittery video, and lag as you know it. Dynamic QoS prioritizes your WiFi bandwidth by application, such as Netflix® as well as by device for smoother streaming.



### MOBILE | FASTER & FARTHER

Nighthawk X6S's Tri-Band WiFi provides more WiFi for more devices while Dynamic QoS bandwidth prioritization optimizes your Internet speed for gaming and streaming. That means more range and reliability for your mobile devices. Easily set up your router and get the most out of your WiFi with the Nighthawk App. Nighthawk X6S offers key features to dramatically boost mobile connectivity and performance. High-power amplifiers & 6 high-performance foldable antennas help extend WiFi coverage throughout large homes & even backyards, while Beamforming+ focuses WiFi signals for stronger more reliable connections.



**Tri-Band WiFi**

The Nighthawk X6S AC4000 Router with Tri-Band WiFi technology delivers a massive combined wireless speed of up to 4.0Gbps. X6S optimizes WiFi performance by intelligently assigning every device to the fastest WiFi band possible and doing so allows devices to connect at their maximum speed. Even if everyone and everything in the home that's connected to the Internet is streaming, gaming, working, playing, socializing or updating at the same time, the X6S won't miss a beat—you'll enjoy seamless clarity and zero lag.

## Tri-Band WiFi provides 3 dedicated WiFi Bands Optimized speeds for all WiFi devices

**FAST****WiFi Band 1**

2.4GHz - Up to 750Mbps

**All Legacy  
WiFi Devices****FASTER****WiFi Band 2**

5GHz - Up to 1.625Gbps

**Dual Band  
WiFi Devices****FASTEST****WiFi Band 3**

5GHz - Up to 1.625Gbps

**Newer Dual Band AC  
WiFi Devices**

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### Speed

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



**EXTREMELY FAST WIFI**—4.0Gbps The fastest combined WiFi speed for uninterrupted streaming



**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 1.8GHz 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 6 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



# NIGHTHAWK®

## Nighthawk® X6S–AC4000 Tri-Band WiFi Router

### 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



**SIMULTANEOUS TRI-BAND**—More & faster WiFi connections for all 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!



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



**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

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.



**NETGEAR ARMOR™**—Cybersecurity for your home††. Advanced cyber threat protection for your home network and your connected devices



**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)



**PARENTAL CONTROLS**—Circle® - the smart way for families to manage content and time online, on any device



**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® X6S-AC4000 Tri-Band WiFi Router

### Nighthawk® App

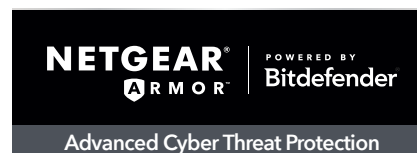
The NETGEAR Nighthawk® App makes it easy to set up your router and get more out of your WiFi, with the app, you can install your router in a few steps—just connect your mobile device to the router network and the app will walk you through the rest. Once set up, you can use the intuitive dashboard to 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)



### NETGEAR Armor™

NETGEAR Armor empowers you to eliminate vulnerabilities or simply know the status of your home network and devices, anytime, anywhere. Get instant notifications when malicious threats are detected, block unknown devices from joining your home network or take action on vulnerabilities as they are discovered easily through the Nighthawk App.



### Powerful Security on Your NETGEAR Router



**ANTIVIRUS & RANSOMWARE PROTECTION**—Keeps you safe from phishing and online fraud



**VULNERABILITY ASSESSMENT**—Scans and identifies network security flaws



**BITDEFENDER SECURITY**—Protects all connected devices at home and on-the-go



**BITDEFENDER VPN**—Encrypts your internet connection to keep your online activity private even while you're on unsecured public networks



**STAY SAFE EVEN WHEN AWAY FROM HOME WIFI**—Stay in the know with Nighthawk App. Anywhere, anytime

**NIGHTHAWK®**

Nighthawk® X6S–AC4000 Tri-Band WiFi Router

**circle®** Circle is the smart way for families to manage content and time online, on any connected device. With the Circle app, you can easily:

- Limit daily Internet time for websites, apps, and more
- Set a BedTime for your family's devices
- Set individual filter for each family member that matches their age and interests
- Pause Internet by device or by user with a press of a button
- Schedule specific 'no internet' times with OffTime
- Check out where your family spends time online
- Reward kids with extended Time Limits, no OffTime, and a late BedTime for the day
- Use voice commands to ask Alexa™ about Time Limits and Usage

Learn more [netgear.com/circle](http://netgear.com/circle)

### Key Features:



**FILTERS**



**TIME LIMITS**



**BEDTIME**



**USAGE**



**PAUSE**



**OFF TIME**



**REWARDS**



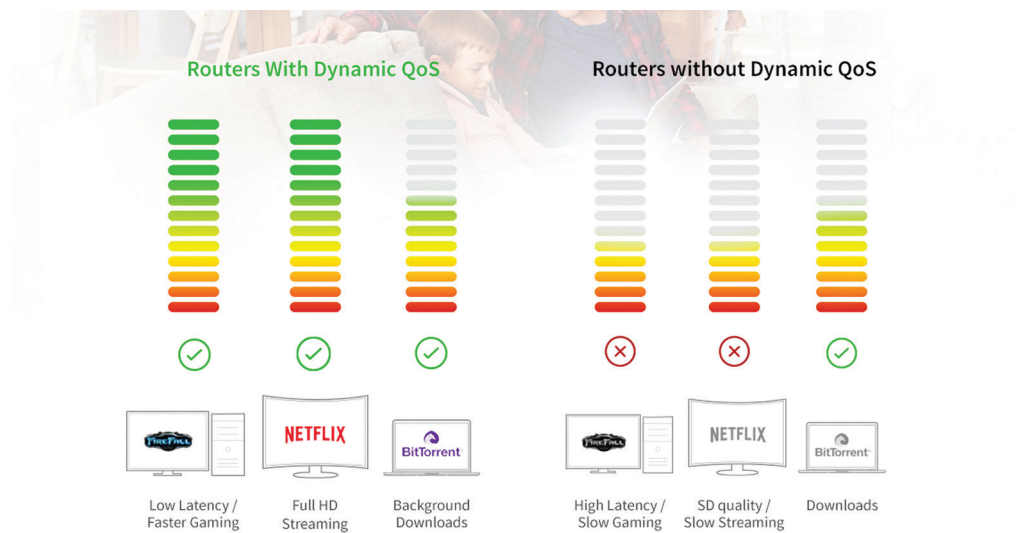
**HISTORY**



**CONNECTIONS**

### 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.





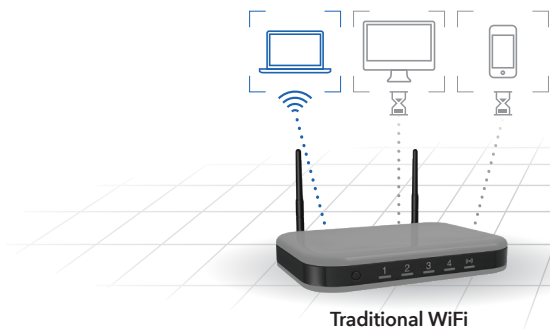
### Multi-user MIMO (MU-MIMO)

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.

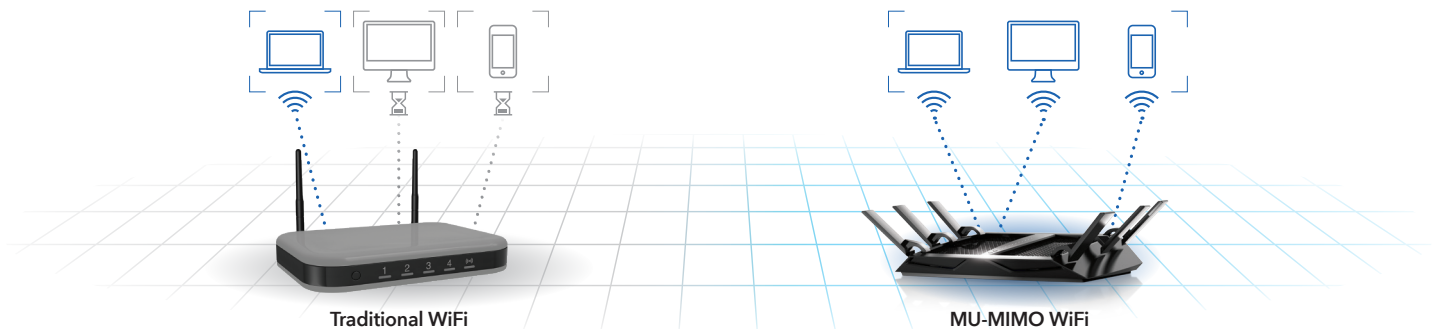
Using multi-user MIMO technology, NETGEAR routers can stream data to multiple devices simultaneously. With MU-MIMO, your WiFi network can deliver faster throughput to every MU-MIMO connected device. That means faster downloads and smoother streaming for your devices.

## Enjoy simultaneous streaming with MU-MIMO

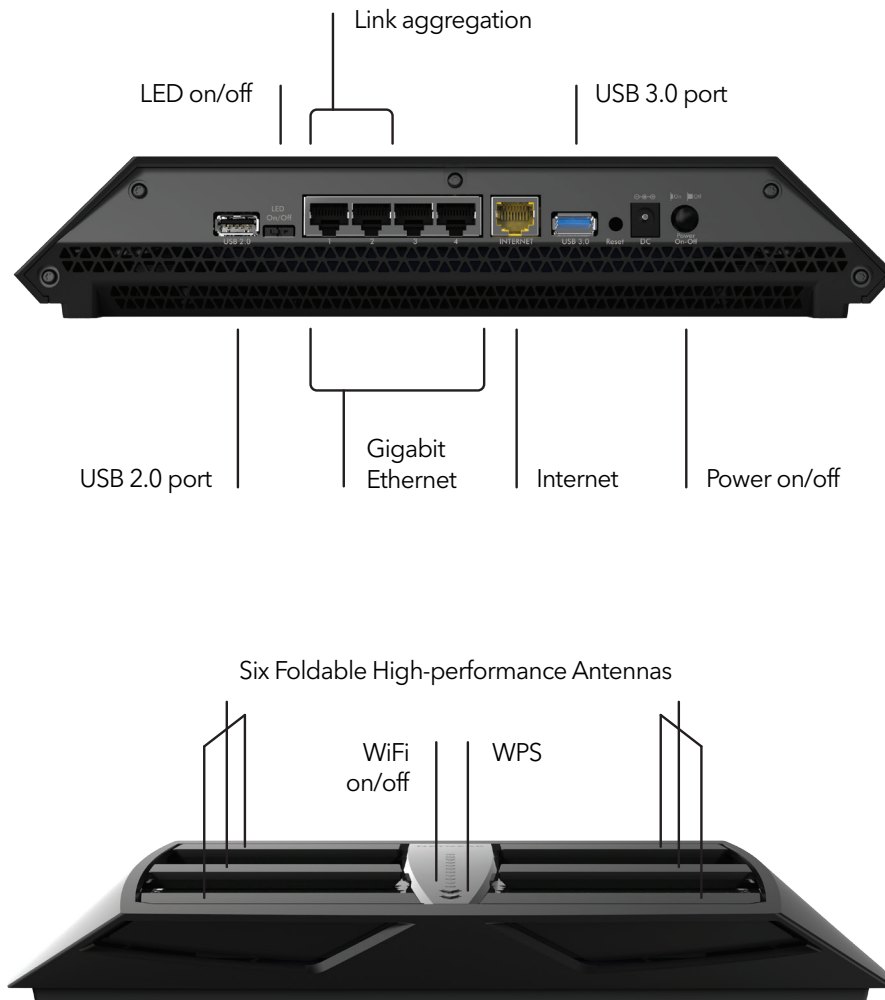
Data sent to one device at a time



Data sent to multiple devices simultaneously



### Connection Diagram



# NIGHTHAWK®

## Nighthawk® X6S–AC4000 Tri-Band WiFi Router

### Package Contents

- Nighthawk® X6S AC4000 Tri-Band WiFi Router (R8000P)
- Ethernet cable
- Quick start guide
- Power adapter, localized to country of sale

### Physical Specifications

- Dimensions: 11.63 x 8.92 x 2.14 in (295.5 x 226.8 x 54.5 mm)
- Weight: 2.43lb (1.1kg)

### Technical Specifications

- AC4000<sup>†</sup> WiFi
  - Band 1: 750Mbps @2.4GHz - 1024-QAM
  - Band 2: 1625Mbps @5GHz - 1024-QAM
  - Band 3: 1625Mbps @5GHz - 1024-QAM
- Simultaneous Tri-Band WiFi
  - Tx/Rx 3x3 (2.4GHz) + 3x3 (5GHz)
  - IEEE® 802.11 b/g/n 2.4GHz - 1024-QAM support
  - IEEE® 802.11 a/n/ac 5GHz - 1024-QAM
- Powerful dual-core 1.8GHz processor
- Memory: 128 MB flash and 512 MB RAM
- Six (6) high-performance external antennas
- High-power amplifiers
- Implicit & Explicit Beamforming for 2.4 & 5GHz
- Five (5) 10/100/1000 Mbps Gigabit Ethernet ports
  - WAN & 4 LAN
  - Dual Gigabit Ethernet port aggregation
- Two (2) USB ports: 1 USB 3.0 & 1 USB 2.0 port
- IPv6 support (Internet Protocol Version 6)
- On/off LED light switch
- Automatic firmware update delivers latest security patches to the router

### Standards

- Two (2) USB ports: 1 USB 3.0 & 1 USB 2.0 port
- IEEE® 802.11 b/g/n 2.4GHz + 1024-QAM support
- IEEE® 802.11 a/n/ac 5GHz
- Five (5) 10/100/1000Mbps–(1 WAN & 4 LAN) Gigabit Ethernet ports

### Key Features

- MU-MIMO–Simultaneous streaming of data for multiple devices<sup>‡</sup>
- Smart Connect–Same WiFi network name on 2.4 & 5GHz for automatic band selection
- Link aggregation–Ability to aggregate two Gigabit LAN ports for faster file transfers
- ReadySHARE® USB–Share your USB hard drive
- Customized free URL to set up personal FTP server
- VPN support–Secure remote access. Now also on mobile devices
- Guest network access–Separate & secure
- Implicit & Explicit Beamforming–More reliable connections
- Alexa voice control–Use Amazon Alexa™ and the NETGEAR Skill to control your network with simple voice commands
- 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
- NETGEAR Armor™–Advanced cyber threat protection for your home and your connected devices<sup>††</sup>
- Circle® Smart Parental Controls<sup>\*\*</sup>–Manage your content and time online, on any device

### 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

- Standards-based WiFi Security (802.11i, 128-bit AES encryption with PSK)
- Automatic firmware update delivers latest security patches to the router
- Double firewall protection (SPI and NAT)
- Denial-of-service (DoS) attack prevention
- VPN Support–Secure access to your home network away from home
- NETGEAR Armor™–Advanced cyber threat protection for your home network and your connected devices<sup>††</sup>
- Circle® Smart Parental Controls<sup>\*\*</sup>–Manage content and time online for your connected devices. Learn more at [netgear.com/circle](http://netgear.com/circle)

### 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.

† 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 4000Mbps wireless speeds achieved when connecting to other 802.11ac 4000Mbps devices.

‡ MU-MIMO capability requires both router and client device to support MU-MIMO.

\*\*Circle® includes the Free Basic Plan. Fees apply for a Premium Plan. Visit [netgear.com/circle](http://netgear.com/circle) for more information.

††NETGEAR Armor requires a paid subscription after the initial 30-day free trial. (No credit card required for the trial). Visit [netgear.com/armor](http://netgear.com/armor).

The country settings must be set to the country where the device is operating.

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