NIGHTHAWK®

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[†] 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.

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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. And to keep your media both safe and instantly accessible, you can use the free ReadySHARE Vault app for automatic, continuous backup of all your home PCs wirelessly, to the USB hard drive connected to the router super-speed USB 3.0 port.

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. 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.

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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	**FASTER**	**FASTEST**
WiFi Band 1	**WiFi Band 2**	**WiFi Band 3**
2.4GHz – Up to 750Mbps	5GHz – Up to 1.625Gbps	5GHz – Up to 1.625Gbps
All Legacy WiFi Devices	**Dual Band WiFi Devices**	**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 you 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, anything from accessing stored photos & music to wireless printing. And make sure you keep it safe by using ReadyCLOUD USB access 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 via two (2) USB ports

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

READYCLOUD® USB ACCESS–Enjoy personal & secure cloud access to USB storage anytime, anywhere

READYSHARE® VAULT–Free software for automatic PC backup to a USB hard drive connected to the router

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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 remote access 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.

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

NETGEAR®

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, setup smart parental controls and much more.

- Smart Parental Controls—Easily manage content & time online with Circle®

- Remote Management—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
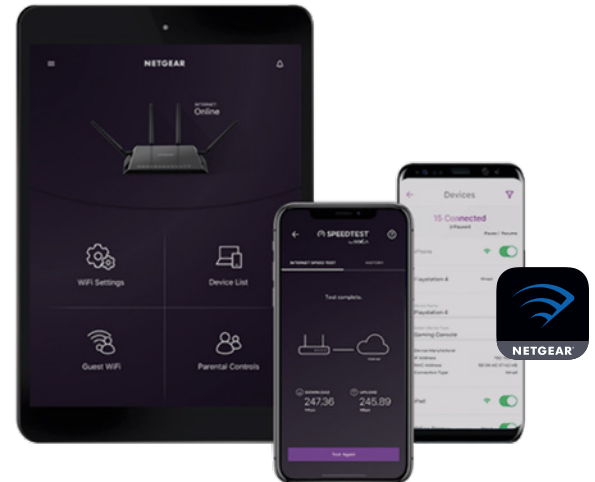
Multi-User MIMO (MU-MIMO)

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
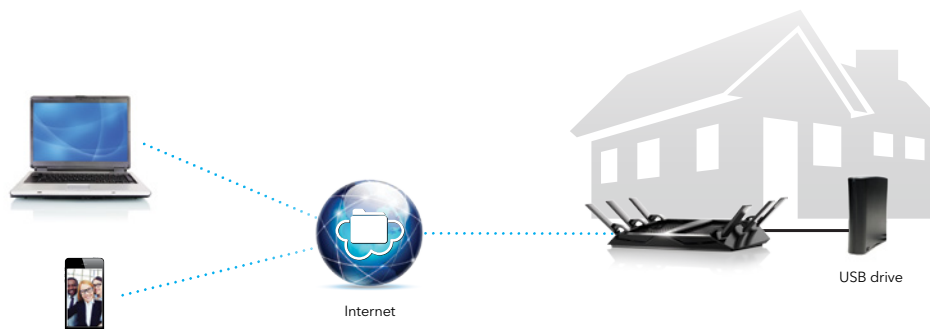
Traditional WiFi

MU-MIMO WiFi

ReadyCLOUD® USB Access–Access Your Files Wherever, Whenever

Access and share your files via secure, personal cloud storage with NETGEAR ReadyCLOUD® USB Access. Once you've connected your USB drive to your NETGEAR Nighthawk® X6S and uploaded all your favorite files, you can enjoy the convenience and accessibility anytime & anywhere you have an Internet connection. No fees, storage limitations, or privacy concerns of cloud storage services. Using the ReadyCLOUD mobile app or web portal, you'll now have anytime, anywhere access to your USB drive at home… it's that easy!

• Setup your and access ReadyCLOUD via the web portal http://readycloud.netgear.com/

• Download mobile app for Android https://play.google.com/store/apps/details?id=com.netgear.readycloud&hl=en

• Download mobile app for iOS https://itunes.apple.com/us/app/readycloud/id700730254?mt=8

USB drive

Internet

NIGHTHAWK®

Circle®

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

Key Features:

| FILTERS | TIME LIMITS | BEDTIME | USAGE | PAUSE | OFF TIME | REWARDS | HISTORY | CONNECTIONS |

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Connection Diagram

Link Aggregation

LED On/Off

USB 3.0 port

USB 2.0 port

Gigabit
Ethernet

Internet

Power On/Off

Six Foldable High-performance Antennas

WiFi
On/Off

WPS
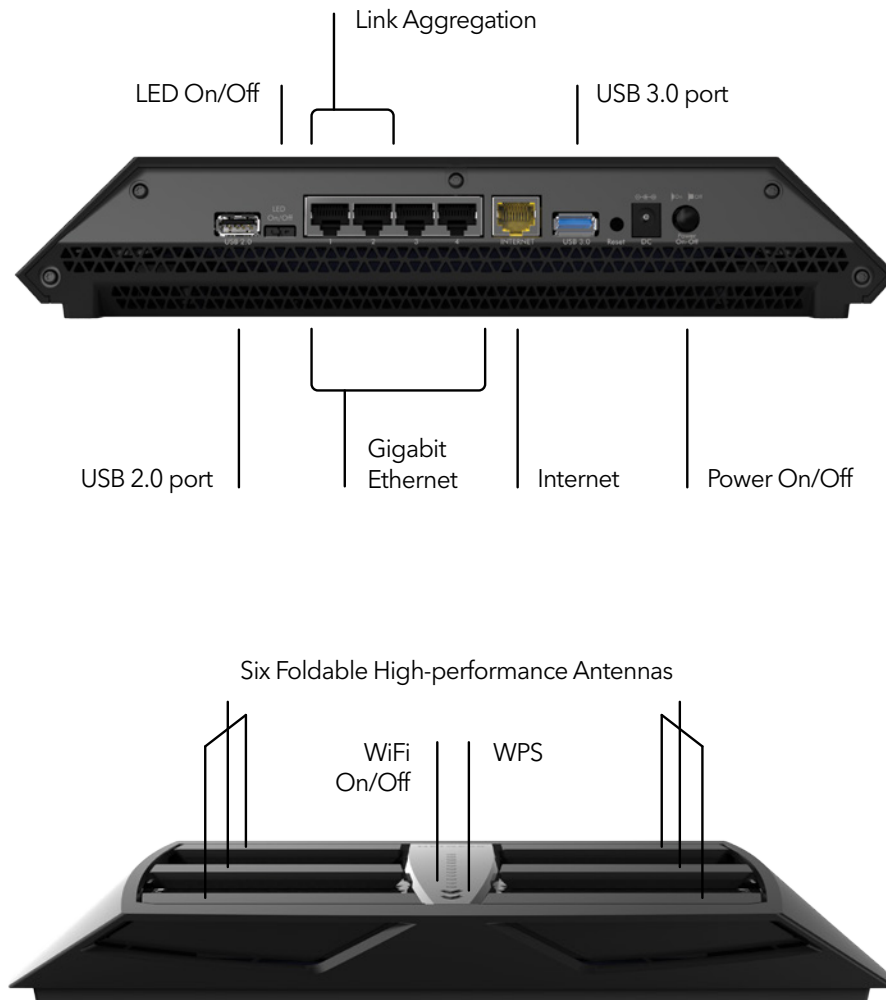
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Package Contents

- 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: 2.43lbs (1.1kg)

Technical Specifications

- AC4000† 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) + 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 + 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

- MU-MIMO—Simultaneous streaming of data for multiple devices‡
- 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 and printer
- 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
- Circle Smart Parental Controls—Manage content and time online

Support

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

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

Warranty

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

This router does not support all the mandatory features, such as Uplink OFDMA, as ratified in Draft 3.0 of IEEE 802.11AX specification.

† 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.

‡ 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 for more information.

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