NETGEAR®

Nighthawk® X4S—AC3200 WiFi Cable Modem Router

Data Sheet

C7800

Performance & Use

DOCSIS® 3.1
Up to 6Gbps‡
Ultra-Fast Cable Internet Speed

xfinity

COX

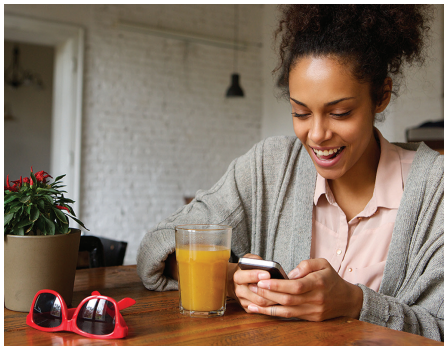
- AC3200 WiFi—Up to 3.2Gbps
- 1.5GHz dual core processor speed boosts performance for streaming & gaming
- Two-in-One—DOCSIS® 3.1 Cable Modem + WiFi Router
- Save up to $120 a year[1]—No rental fees
- Required for fastest Internet speed tiers offered by XFINITY® from Comcast and Cox®
- 32x8 channel bonding for all DOCSIS 3.0 speed tiers
- Beamforming+ for whole home HD coverage
- Works with cable Internet providers like XFINITY from Comcast, Cox & more

WIFI CABLE MODEM ROUTER

- Two-in-One—Ultra-high speed DOCSIS® 3.1 Cable Modem + Nighthawk® X4S WiFi Router
- CableLabs® Certified—DOCSIS® 3.1 is 10X faster than DOCSIS® 3.0‡
- No equipment rental fees—Save up to $120 a year*
- 32x8 channel bonding technology enables extreme cable Internet speeds
- OFDM/OFDMA 2x2 enables Gigabit Internet speeds
- Required for fastest Internet speed tiers offered by XFINITY® from Comcast and Cox
- Works with cable Internet providers like XFINITY from Comcast, Cox & more

STREAMING & GAMING

- 3.2Gbps WiFi speed delivers multiple HD videos with ease
- Quad-Stream WiFi—Enjoy multiple videos simultaneously
- ReadySHARE® Vault PC software automatically backs up to USB hard drive connected to the router
- Connect USB 3.0 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

- Powerful amplifiers and four high-performance external active antennas increase WiFi range
- NETGEAR genie® is an easy way to manage, monitor and repair your home network
- EZ Mobile Connect—Scan a QR code & connect to WiFi securely
- Turbo Transfer allows sharing of files between PC, Mac® or Android® devices

[1]Based on a typical monthly equipment rental fee of $10 per month.

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Speed

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

EXTREMELY FAST WIFI—Up to 3.2Gbps combined WiFi speed for extreme gaming and streaming

DOCSIS® 3.1—Up to 10 times faster than DOCSIS 3.0

CHANNEL BONDING—Extremely fast cable Internet speeds during peak hours

GIGABIT WIFI—Next-generation WiFi now at Gigabit speeds

GIGABIT WIRED—Ideal for HD gaming & video

PROCESSOR—Powerful 1.5GHz dual core processor boosts wireless, wired, and WAN-to-LAN

WiFi Range

Homes come in all shapes & sizes & Nighthawk X4S AC3200 WiFi Cable Modem Router provides WiFi coverage no matter where you connect in your home.

ULTIMATE RANGE—WiFi coverage throughout very large homes

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

ANTENNAS—High-power amplifiers & external active antennas

Sharing

With NETGEAR, sharing across your network is fun & easy, anything from accessing stored data, media, photos & music to wireless printing.

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

READYSHARE® USB—Share your USB hard drive & printer with two 3.0 USB ports

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Reliable Connections

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

- SIMULTANEOUS DUAL BAND—Reduces interference for better connections to more WiFi devices
- 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 & management is simple & easy, so you can connect quickly & make sure you stay that way!

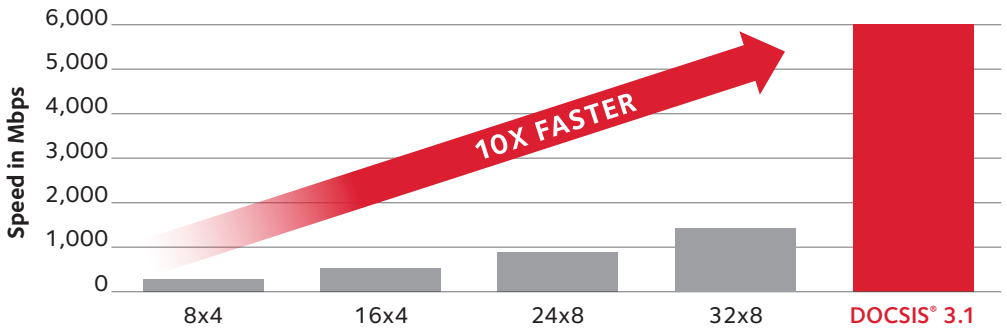
- EASY INSTALL—Easy setup for iPad®, tablets, smartphones & computers
- NETGEAR GENIE® APP—Personal dashboard to monitor, control & repair your home network
- PUSH 'N' CONNECT—Easy push button WiFi connections (WPS)
- WIFI ON/OFF—Convenient power savings

Security

Maintain high security across your network to help 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.

- PARENTAL CONTROLS—Web site filtering for all your connected devices
- GUEST NETWORK ACCESS—Separate & secure access for guests
- SECURE WIFI CONNECTIONS—High level wireless security with WPA/WPA2

DOCSIS® SPEEDS



WHY DOCSIS® 3.1

- More Speed—Up to 10 times faster than DOCSIS 3.0
- Increases the uplink speed to the cloud for critical uploads like security camera feeds and photos
- Improves stability and reliability of your Internet connection
- More energy efficient

NETGEAR genie®—HOME NETWORKING SIMPLIFIED

Unlike typical WiFi routers that just blast the WiFi signals in all directions, with Beamforming+ the router & device communicate with each other, so the router can directly beam the WiFi 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.

NETGEAR genie makes getting the most out of your home network fun & easy. NETGEAR genie allows you to easily monitor, connect & control your home network. With NETGEAR genie you can share & stream music or videos, diagnose & repair network issues, set up parental controls & more.

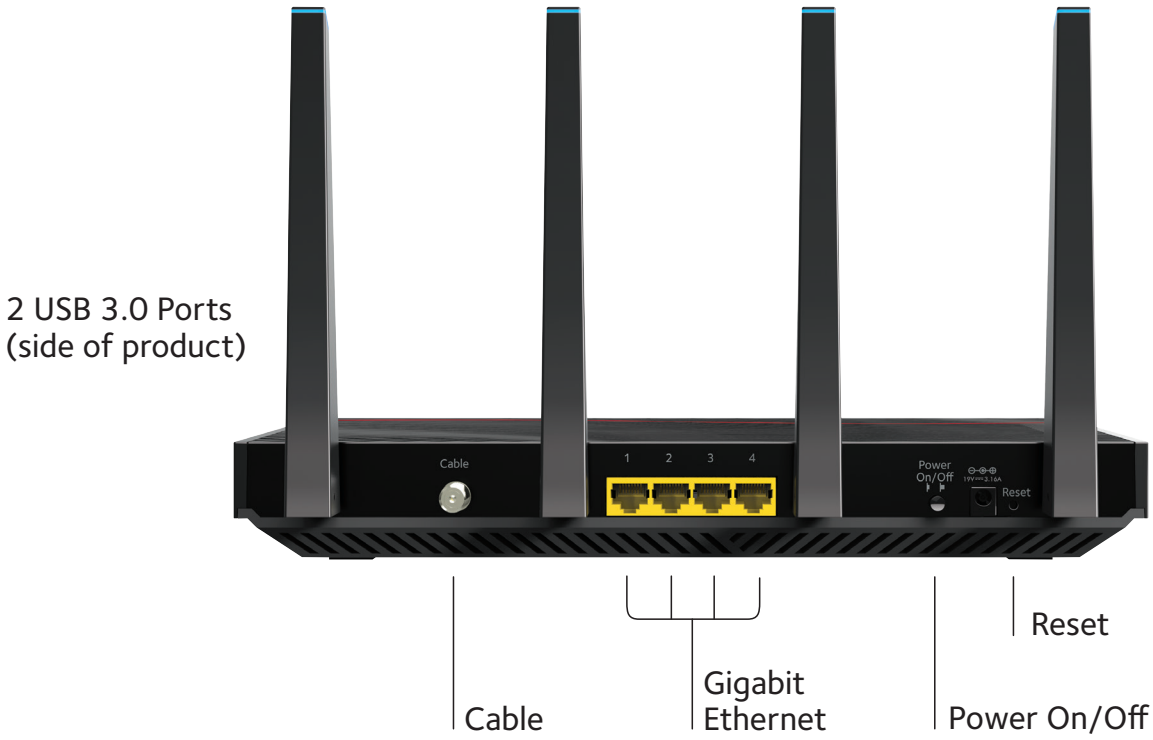
- Network Map—Allow or block access to your network using real-time map of connected devices
- Traffic Meter—Track your Internet data usage
- MyMedia®—Find & play media files in your network
- EZ Mobile Connect—Scan QR code to connect to your home network
- For iPhone®, iPad® or Android® devices

BEAMFORMING+—FOR MORE RELIABLE CONNECTIONS

Unlike typical WiFi routers that just blast the WiFi signals in all directions, with Beamforming+ the router & device communicate with each other, so the router can directly beam the WiFi signal to the device. Boosting speed, reliability, and range for both Implicit and Explicit 2.4 & 5GHz WiFi devices, the result is a stronger, faster, more reliable connection that is locked in even when the device is moved around the home.

- WiFi Signal Focus—Focuses 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
- Device Connections—Designed for home environments to support multiple WiFi device connections for highest quality
- WiFi Coverage—Reduces dead spots, & boosts signal strength
- Implicit & Explicit Beamforming boosts speed, reliability & range for both 2.4 & 5GHz WiFi devices—an industry first

Connection Diagram



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Package Contents

- Nighthawk® X4S AC3200 WiFi Cable Modem Router (C7800)
- Ethernet cable
- Quick Start Guide
- Power adapter

Physical Specifications

- Dimensions: 12.4 x 10.4 x 7.5 in
- Weight: 3.15 lb

Warranty

- www.netgear.com/warranty

Technical Specifications

- Built-in high-speed DOCSIS® 3.1 Cable Modem compatible with 32x8 DOCSIS® 3.0
- 32 downstream & 8 upstream channels
- 2 OFDM downstream and 2 OFDMA upstream channels for faster, more clear data streaming
- AC3200 (1000Mbps @2.4GHz with 1024 QAM support + 2200Mbps @5GHz 11ac)†
- Simultaneous Dual Band WiFi—Tx/Rx 4x4 (2.4GHz) + 4x4 (5GHz)
- Beamforming+—For more reliable connections on 2.4 and 5GHz bands
- Powerful dual core 1.5GHz processor
- Memory: 128 MB flash and 512 MB RAM
- Four (4) high-performance active antennas —Enhance weak signals & reduce interference with a patent pending design
- Two (2) USB 3.0 ports—Connect storage devices to store & stream your own media
- Four (4) Gigabit Ethernet LAN ports—Connect more wired devices
- IPv6 Support (Internet Protocol Version 6)
- ReadySHARE® USB—Share your USB hard drive & printer
- ReadySHARE® Vault—Free software for automatic PC backup to USB hard drive connected to the router
- Enhanced Parental Controls—Manage website access by family member and device
- NETGEAR GENIE® APP—Personal dashboard to monitor, control & repair your home network

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
- Guest network access—Separate & secure
- WiFi Protected Access® (WPA/WPA2—PSK)
- Double firewall protection (SPI and NAT)
- Denial-of-service (DoS) attack prevention

Standards

- Two (2) USB 3.0 ports
- IEEE® 802.11 b/g/n 2.4 GHz + 1024 QAM support
- IEEE® 802.11 a/n/ac 5.0 GHz
- Four (4) 10/100/1000 Mbps—(4 LAN) Gigabit Ethernet ports

Supports Windows® 10

Mac

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 standard 802.11 specifications. Actual data throughput and wireless coverage will vary. Network conditions and environmental factors, including volume of network traffic, interference, and building construction may lower actual data throughput and wireless coverage. NETGEAR makes no express or implied representations or warranties about this product's compatibility with any future standards.

‡Maximum rate is derived from DOCSIS® 3.1 specifications and actual throughput will vary depending on your Internet subscription with your provider. NETGEAR makes no express or implied representations or warranties about this product's compatibility with any future standards. Customer-owned modems may not be compatible with certain cable networks. Please check with your cable provider to confirm this NETGEAR modem is allowed on your cable network. This product not compatible with Cable bundled voice services.

Intended for indoor use only.

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