NETGEAR®

AC1750 WiFi Cable Modem Router

Data Sheet

C6300

Performance & Use

WIFI SPEED

AC1750

1750
DUAL BAND
450+1300

RANGE

- AC1750 WiFi—450+1300 Mbps†

- Eliminate monthly rental fees—Up to $120 per year¹

- DOCSIS 3.0 16x faster cable Internet speeds— up to 680 Mbps‡

- Ideal for XFINITY® Blast/Extreme and Spectrum® Internet plans

- Works with cable Internet providers like XFINITY® from Comcast, Spectrum®, Cox®, Cablevision & more

xfinity   Spectrum▶   COX

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

Overview

Get 16 times faster download speeds, up to 680 Mbps‡, with this 2-in-1 AC1750 WiFi router and integrated DOCSIS® 3.0 cable modem. It is CableLabs® certified to work with all major cable Internet providers such as XFINITY® from Comcast, Spectrum®, Cox®, Cablevision and more.

The NETGEAR Difference – C6300

- Ultra-fast cable Internet speeds up to 680 Mbps‡

- Compatible with current and next generation WiFi devices

- High-performance Intel® Puma™ 6 processor supports 16 download & 4 upload channels for efficient & reliable Internet access

- Fast self-activation for XFINITY customers— get connected without a service call

Fast Cable Internet Access

- Up to 680 Mbps‡ download and upload speed for streaming HD videos, faster downloads, and high-speed online gaming

- Compatible with U.S. cable Internet providers (ISPs) like XFINITY® from Comcast, Spectrum®, Cox®, Cablevision and more

- DOCSIS® 3.0 is 16 times faster than DOCSIS 2.0 devices

- Saves money—No monthly equipment charges required from your Internet service provider

- Gigabit Ethernet ports—Fastest wired speeds to connect your router or computer

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NETGEAR®

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Speed

Speed makes HD video better. Speed makes online gaming awesome. Speed makes all your devices really go. And anyplace you need speed, with NETGEAR you got it. Fast download speeds up to 680 Mbps‡. WiFi technology provides whole home coverage. Everything you need for a fast, connected home.

Ultimate WiFi Speed

WORLD'S FASTEST WIFI—Up to 450+1300 Mbps†

DOCSIS® 3.0—Up to 16 times faster cable Internet speeds than 2.0

16x4 CHANNEL BONDING—Fastest Cable Internet speeds during peak hours

GIGABIT WIRED—Ideal for HD gaming & video streaming

GIGABIT WiFi—Next generation WiFi now at Gigabit speeds

Reliable Connections

Stay connected—with your devices, your media, and your friends. Simultaneous dual band reduces interference.

Enjoy better connectivity throughout your home

SIMULTANEOUS DUAL BAND—Reduces interference for better connections to more WiFi devices

WiFi Range

Homes come in all shapes and sizes. The NETGEAR AC1750 WiFi Cable Modem Router provides the best WiFi connectivity throughout your home for all your Internet-enabled devices.

Ultimate WiFi Range

ULTIMATE RANGE—WiFi coverage throughout your home

Sharing

Relive memories and share them with others. Enjoy photos, videos and music stored on a shared USB hard drive. If it's secure and shared storage access you want, NETGEAR has easy ways to do it.

Share & stream your movies, music, photos

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

READYSHARE® USB ACCESS—Wirelessly access & share USB hard drive via the USB port

NETGEAR®

Ease of Use

Use Push 'N' Connect to add devices to your WiFi network with a push of a button. And the simple browser-based installation with no CD makes router installation easy using an iPad, tablet, smartphone, or computer.

Simple network management

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

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

WIFI & POWER ON/OFF—Convenient power savings

Security

Guest networks create a completely separate WiFi network for your guests' devices so they do not have access to your home network or to the shared USB hard drive with all your personal data. Secure WiFi connections offer high level WPA/WPA2 security.

Safeguard your network

GUEST NETWORK ACCESS—Separate & secure access for guests

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

Applications

With the AC1750 WiFi Cable Modem Router create a better home network for applications such as online gaming, a fast reliable connection to the Internet and a secure wireless connection.

Ideal Uses

EMAIL, CHAT, SURF, MUSIC, VIDEO—Enjoy a fast, reliable and secure wireless connection to the Internet

ONLINE GAMING—Optimized for multi-player gaming with no lags
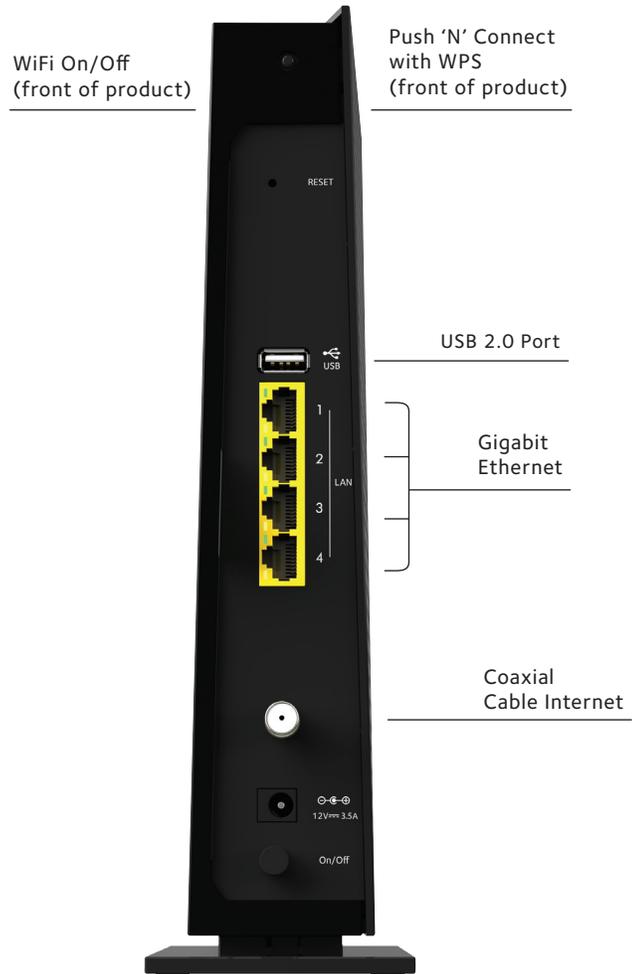
HD STREAMING—Enjoy high-quality HD streaming

MULTIPLE HD STREAMING—Optimized for a smooth, lag-free multiple HD streaming experience

ISP Works with cable Internet providers like XFINITY® from Comcast, Spectrum®, Cox®, Cablevision & more (not compatible with Cable bundled voice services). Please check your cable Internet service provider web site for data speed tier compatibility.

NETGEAR®

AC1750 WiFi Cable Modem Router

Connection Diagram

WiFi On/Off
(front of product)

Push 'N' Connect
with WPS
(front of product)

RESET

USB 2.0 Port

USB

1
2   LAN
3
4

Gigabit
Ethernet

Coaxial
Cable Internet

12V⎓ 3.5A

On/Off

AC1750 WiFi Cable Modem Router

PACKAGE CONTENTS

- AC1750 WiFi Cable Modem Router (C6300)
- Ethernet cable
- Quick install guide
- Power adapter

PHYSICAL SPECIFICATIONS

- Dimensions: 10.94 x 6.85 x 2.96 in
- Weight: 1.52 lb

WARRANTY

- www.netgear.com/warranty

SECURITY

- Wi-Fi Protected Access® (WPA/WPA2—PSK)
- Double firewall protection (SPI and NAT firewall)
- Denial-of-Service (DoS) attack prevention
- Push 'N' Connect—Easy push button WiFi connections (WPS)

ADVANCED FEATURES

- Designed to meet DOCSIS 3.0 specifications and backward compatible with DOCSIS 2.0 devices
- Channel bonding technology delivers fast download and upload speeds - up to 680 Mbps‡
- IPv6 next generation Internet addressing support
- Four Gigabit Ethernet ports with auto-sensing technology

TECHNICAL SPECIFICATIONS

- Built-in high-speed 16x4 CableLabs® certified DOCSIS® 3.0 Modem
- 16 downstream & 4 upstream channels
- AC750 WiFi Simultaneous Dual Band WiFi—2.4 & 5GHz
- WiFi Transmitters/Receivers (Tx/Rx)- 3x3 (2.4GHz) + 3x3 (5GHz)
- WiFi Boost with high-powered radio amplifiers
- Memory—128 MB flash and 256 MB RAM
- 600MHz Intel® Puma™ 6 processor
- IPv6 Supported (Internet Protocol Version 6)

SYSTEM REQUIREMENTS

- Cable broadband Internet service
- Check your cable Internet service provider web site for data speed tier compatibility
- Microsoft® Windows® 7, 8, 10, Vista®, XP®, 2000, Mac OS®, or other operating systems running a TCP/IP network
- Microsoft® Internet Explorer® 5.0, Firefox® 2.0, Safari® 1.4, or Google Chrome™ 11.0 browsers or higher
- Use laptop with 3x3 450 Mbps adapter like Centrino® 6300/5300 for maximum performance
- Use with an 802.11ac adapter like NETGEAR A6200 for maximum performance

STANDARDS

- One (1) USB 2.0 port
- One (1) coaxial port for cable Internet
- IEEE® 802.11 b/g/n 2.4GHz
- IEEE® 802.11 a/n/ac 5GHz
- Four (4) 10/100/1000 LAN Gigabit Ethernet ports with auto-sensing technology