



Performance & Use



- AC1600 WiFi—300+1300 Mbps[†]
- DOCSIS 3.0 16x faster cable Internet speeds—up to 680 Mbps[†]
- Ideal for XFINITY® Blast/Extreme Internet plans
- Eliminate monthly rental fees—Save up to \$120 a year¹
- Works with cable Internet provider Comcast XFINITY® & more



Overview

Get 16 times faster download speeds, up to 680 Mbps[†], with this 2-in-1 AC1600 WiFi router and integrated DOCSIS 3.0 cable modem. It is CableLabs® certified to work with cable Internet provider Comcast XFINITY® and more.

The NETGEAR Difference - C6250

- Ultra-fast cable Internet speeds up to 680 Mbps[†]
- Compatible with current and next generation WiFi devices
- 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—Ideal for XFINITY® Blast and Extreme Internet plans
- Save money over time by owning your cable equipment and avoiding monthly rental charges from your Internet provider—up to \$120 per year¹
- 16 downstream & 4 upstream channels providing efficient and reliable Internet access
- Two Gigabit Ethernet ports—Fastest wired speeds to connect your router or computer



NETGEAR genie®—HOME NETWORKING SIMPLIFIED

NETGEAR genie makes getting the most out of your home network fun & easy. Installation is almost effortless – just by opening a browser, genie helps you setup your NETGEAR WiFi Router & connect all of your WiFi devices. Genie also allows you to easily monitor, connect & control your home network from a PC, Mac, tablet or smartphone. With NETGEAR genie you can share & stream music or videos, diagnose & repair network issues, set up parental controls & more.

- Home network manager
- Makes any printer AirPrint® compatible to print from an iPad® or iPhone®
- MyMedia™—Find & play media files in your network
- EZ Mobile Connect—Scan QR code to connect to your home network
- Turbo-Transfer—Quickly transfer files within your home network across various devices 40% faster than normal file transfers
- For PC, Mac®, iPhone®, iPad®, & Android™ devices



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

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



FASTEST WIFI—Up to 300+1300 Mbps†



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



CHANNEL BONDING—Fastest Cable Internet speeds during peak hours



GIGABIT WiFi—Next generation WiFi now at Gigabit speeds



GIGABIT WIRED—Ideal for HD gaming & video streaming

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 AC1600 WiFi Cable Modem Router provides the best WiFi connectivity throughout your home for all your Internet-enabled devices.

Ultimate WiFi Range



RANGE—For large homes

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

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



NETGEAR GENIE® APP—Personal dashboard to monitor, control & repair your home network

Security

Guest networks create a completely separate WiFi network for your guests' devices, ensuring 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 the highest level of WPA/WPA2 security.

Safeguard your network



GUEST NETWORK ACCESS—Separate & secure access for guests



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



PARENTAL CONTROLS—Web filtering for all your connected devices

Applications

With the AC1600 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



Works with cable Internet provider Comcast XFINITY® & more (not compatible with Cable bundled voice services). Please check your cable Internet service provider web site for data speed tier compatibility.

Connection Diagram



USB 2.0
Port

Gigabit
Ethernet

Coaxial
Cable Internet

AC1600 WiFi Cable Modem Router

Data Sheet

C6250-100NAS

PACKAGE CONTENTS

- AC1600 WiFi Cable Modem Router (C6250-100NAS)
- Ethernet cable
- Quick install guide
- Power adapter

PHYSICAL SPECIFICATIONS

- Dimensions: 7.68 x 7.79 x 2.52 in
- Weight: 1.2 lb

WARRANTY

- NETGEAR 1-year limited 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
- Fast download and upload speed—16x4 Channel Bonding enables 680 Mbps* download
- IPv6 next generation Internet addressing support
- Two Gigabit Ethernet ports with auto-sensing technology

TECHNICAL SPECIFICATIONS

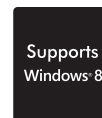
- Built-in high-speed 16x4 CableLabs® certified DOCSIS® 3.0 Modem
- 16 downstream & 4 upstream channels
- AC1600 WiFi Simultaneous Dual Band WiFi—2.4 & 5GHz
- WiFi Transmitters/Receivers (Tx/Rx)—2x2 (2.4GHz) + 3x3 (5GHz)
- WiFi Boost with high-powered radio amplifiers
- Memory—128 MB flash and 256 MB RAM
- 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, 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
- Use laptop with 3x3 450 Mbps adapter like Centrino® 6300/5300 for maximum performance
- Use with an 802.11ac adapter like NETGEAR A6210 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
- Two (2) 10/100/1000 LAN Gigabit Ethernet ports with auto-sensing technology



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

*24/7 basic technical phone support provided for 90 days from purchase date.

†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, building materials and construction, and network overhead, lower actual data throughput rate and wireless coverage. NETGEAR makes no express or implied representations or warranties about this product's compatibility with any future standards. 802.11ac 1300 Mbps is approximately 3x faster than 802.11n 450 Mbps. Up to 1300 Mbps wireless speeds achieved when connecting to other 802.11ac 1300 Mbps devices.

*Maximum rate is derived from DOCSIS® 3.0 specifications and actual throughput will vary depending on the MSO provisioning and speed tier subscription. Check your cable Internet service provider web site for data speed tier compatibility. 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.

For indoor use only.

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