

NETGEAR®

DOCSIS 3.0 AC1900 Voice and Data Cable Gateway, C7000B

Data Sheet – Preliminary

C7000B

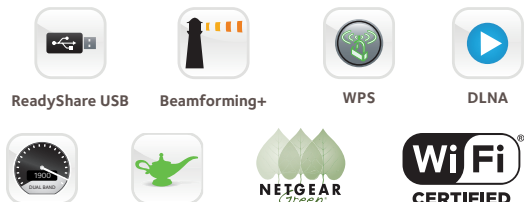


AC1900 WiFi speeds plus Beamforming+ for the ultimate in speed, ease of use and reliability

The new NETGEAR DOCSIS® 3.0 AC1900 Voice and Data Cable Gateway (C7000B), gives service providers the ultimate experience for their end-users.

The NETGEAR C7000B raises the bar with its incredibly fast WiFi giving service provider’s subscribers the power to connect to all of their smartphones, tablets and mobile devices faster than ever before. Enhancing end-user’s ultra-fast WiFi connection is the addition of explicit and implicit Beamforming+ creating better range and a stronger connection that is ideal for large homes.

Built-in NETGEAR genie® offers end-users complete access and management of their home network, resulting in fewer technical support calls. NETGEAR Enhanced Support Tools offer easy troubleshooting for cable operators providing unprecedented visibility and diagnostic tools to ensure carrier-grade voice services.



The NETGEAR Difference

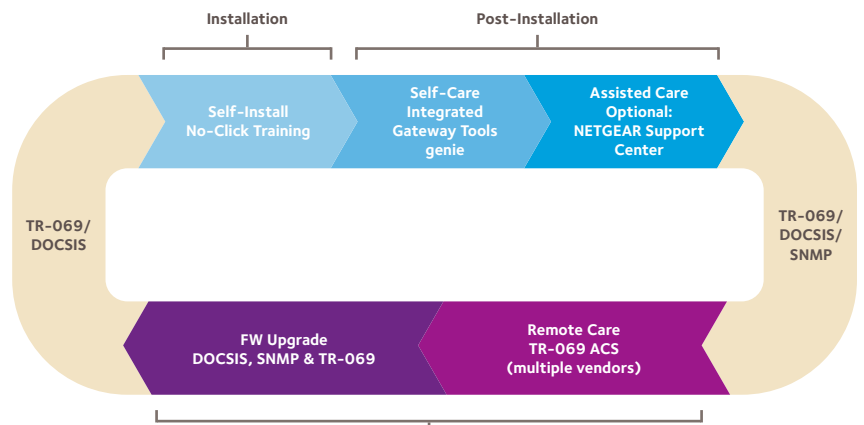
- 11ac ultra-fast cable Internet speeds up to 1 Gbps with NETGEAR Beamforming+ for expanded coverage and a better WiFi connection
- NETGEAR genie® application for simplified home network management
- Enhanced support tools with TR-069, SNMP and genie app
- Hotspot/WiFi offload support using GRE soft tunnel
- ReadyShare USB hard drive access through local network
- Live parental controls

Benefits

- 11ac AC1900 WiFi – 600+1300 Mbps+ speeds
- Up to 1 Gig DOCSIS download speed with 24 bonded channels
- Explicit and implicit Beamforming+ for improved WiFi range and performance
- High powered amplifiers and antennas to extend WiFi coverage
- Upstream and downstream advanced Quality of Service (QoS) for best gaming and video streaming experience
- Integrated 4-port Gigabit Ethernet switch
- Next generation of HD voice with PacketCable 2.0

Ease of Use

- Installation and management is simple and easy with Push ‘N’ Connect and NETGEAR genie app
- NETGEAR genie has a host a features to give end-users ultimate access and control of their network:
 - Home network management
 - MyMedia: Find and play media files from network
 - Turbo Transfer: Share files within home network between PC, MAC or Android
 - Guest Network and EZ Mobile Connect: Separate and secure access for guests; scan QR code to connect guests to the network



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Technical Specifications

System Requirements

- Cable broadband Internet service
- Microsoft® Windows® 7, 8, 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

Physical Interfaces

- 1: USB 2.0 port
- 1: Coaxial port for cable Internet
- 2: Voice ports
- 4: Gigabit Ethernet ports with auto-sensing technology

Security

- WPA/WPA2 – PSK
- SPI and NAT firewall
- Denial-of-Service (DoS) attack prevention
- WPS

Power

- 12V/3.5A

Environmental Specifications

- Operating Temperature: 5–40 °C
- RoHS/REACH/WEEE Compliant

Warranty

- Standard 2-year

Network Management

- Remote GUI Management
- Genie® GUI Management
- uPnP
- DLNA
- Port forwarding/Port Triggering
- DHCP Server

LEDs

- Power
- DS/US
- ONLINE
- Telephony
- 2.4GHz
- 5GHz
- WPS
- WiFi

Ease-of-use

- NETGEAR genie for PCs, iPad, tablets, MacBook Air, and smartphones
- Push 'N' Connect using WiFi Protected Setup® (WPS)1

Advanced Features

- 24x8 3.0 Modem
- Download and upload speeds up to 1.2 Gbps
- IPv6
- Simultaneous dual-band WiFi
- 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
- Advanced QoS
- Four Gigabit Ethernet ports

NETGEAR Green Features

- Power On/Off button
- Wireless On/Off button
- 80% recycled packaging
- CEC (California Efficiency)
- RoHS
- WEEE
- REACH

Package Contents

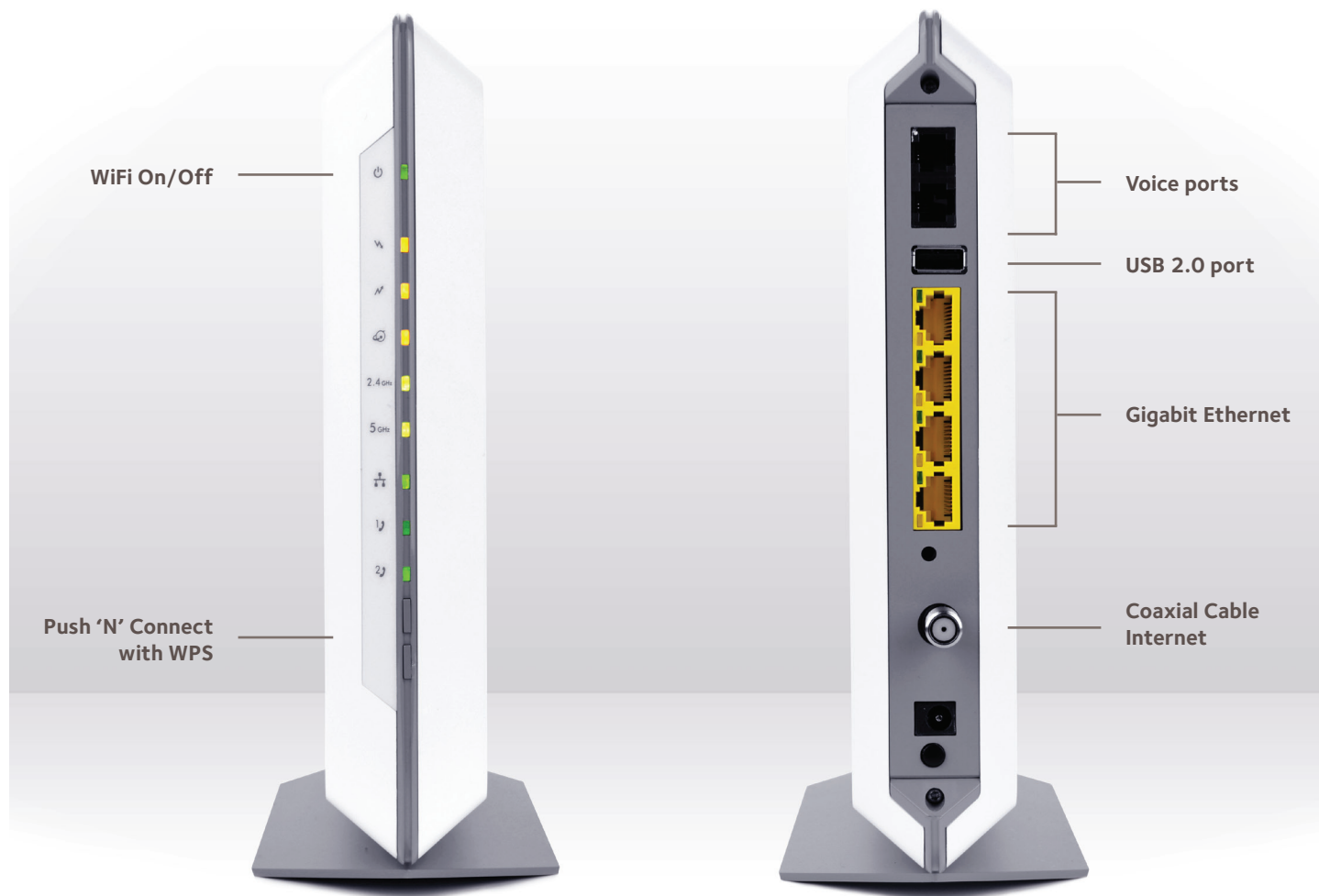
- C7000B cable gateway
- Ethernet cable
- Quick install guide
- Power adapter

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Connection Diagram



† 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. 2.4GHz Performance Mode requires 256 QAM support on WiFi client. Up to 1300 Mbps wireless speeds achieved when connecting to other 802.11ac 1300 Mbps devices.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 30cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.