

NETGEAR®

DOCSIS® 3.0 AC1900 Data Gateway

Data Sheet – Preliminary

C6300BD



The NETGEAR® C6300BD DOCSIS 3.0 AC1900 Data Gateway delivers next generation WiFi at Gigabit speeds

The C6300BD DOCSIS 3.0 Data Gateway is an 8x4 advanced gateway product that combines a 4-port Gigabit router and a simultaneous dual-band wireless access point into a single device capable of supporting both home and small office applications. It offers the ultimate mobility for WiFi devices with speeds up to three times faster than 802.11n. Compatible with next generation WiFi devices and backward compatible with 802.11 a/b/g and n devices, it enables seamless HD streaming throughout the home.

The C6300BD offers speeds up to 600+1300 Mbps with Beamforming+ for top WiFi speeds and even more reliable connections. This makes it ideal for larger homes with multiple devices. In addition, four Gigabit Ethernet ports offer ultra-fast wired connectivity. Wirelessly access and share USB hard drive using the USB 2.0 ports.

The NETGEAR genie® application provides easy monitoring from a tablet, computer or smartphone. It includes a personal dashboard, allowing end-users to manage, monitor and repair their home network.

The NETGEAR Difference

- Ultra-fast 802.11ac speeds up to 1900 (1300+600) Mbps; up to three times faster than 802.11n¹
- Faster download and upload speeds for improved HD video streaming and high-speed online gaming
- Beamforming+, unique to NETGEAR, creates a stronger, directed connection between the gateway and mobile devices
- Explicit and implicit Beamforming+ means even legacy devices without beamforming capabilities can experience improved connectivity
- Compatible with next generation WiFi devices

Whole Home System



Features

- DOCSIS® 3.0/EURO-DOCSIS 3.0; 16x4 full band capture; 16 times faster than DOCSIS 2.0
- Simultaneous dual-band WiFi
- NETGEAR genie App allows end-users to:
 - Easily manage their home network and troubleshoot connectivity issues they may experience
 - MyMedia™ - Find and play media files in the home network
 - Turbo Transfer - Share files with the home network between PC, MAC® and Android®
 - EZ Mobile connect - Guests can quickly scan a QR code to join network
 - Live parental controls
- Enhanced Support Tools
- TR-069, NETGEAR genie, SNMP
- Hotspot/WiFi offload support using GRE soft tunneling
- Gigabit Ethernet WAN interface
- Push 'N' Connect (WPS) for easy one button connection set-up
- Highest levels of wireless security with WPA/WPA2





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Technical Specifications

Physical Interfaces

- WAN: DOCSIS/Euro-DOCSIS 16x4
- LAN: 4 Gig Ethernet ports, 1 Gig WAN port
- WiFi: AC1900 3x3 - 2.4GHz and 3x3 5 GHz
- 1 USB host port

Physical Specifications

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

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

- Fastest WiFi with 11ac – Up to N600+AC1300
- Parental controls
- Gigabit Wired – Ideal for HD gaming and video
- DLNA® – Find and play your media on DLNA TVs
- ReadySHARE® USB Access
- NETGEAR genie® Application – Personal dashboard to monitor, control and repair your home network
- Push 'N' Connect – Easy push button WiFi connections (WPS)
- WiFi and Power On/Off – Convenient power savings
- TR-069
- Designed to meet DOCSIS 3.0 specifications and backward compatible with DOCSIS 2.0 networks
- IPv6 next generation Internet addressing support
- Built-in high-speed CableLabs® certified DOCSIS 3.0 Modem
- 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

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

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

† 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.

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