

WCB6200Q

802.11ac WIRELESS NETWORK EXTENDER

Wireless Network Extender

Actiontec®

with MoCA, Gigabit Ethernet & 802.11ac

Blazing Fast 802.11ac WiFi sSpeeds Everywhere in the House

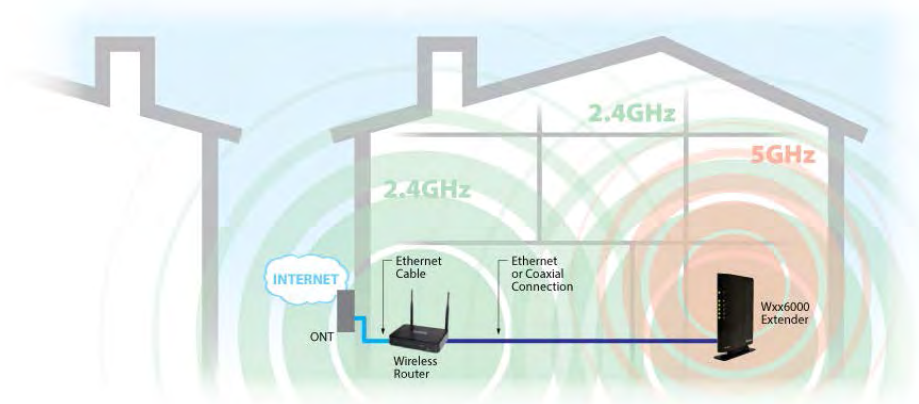
Tired of dead spots in your home's wireless network? Is your living room too far from your router for streaming video? There's an easy way to get the high-performance wireless network you want. With the WCB6200Q Wireless Network Extender, you can extend the range of your WiFi network to the far corners of your home. And with next generation 802.11ac speeds, bonded MoCA and video prioritization technology, the WCB6200Q doesn't just extend your existing network, it turbo-charges it. .

Next Generation 802.11ac Speeds

Don't have a wireless router that supports high-speed 802.11ac yet? No problem. The WCB6200Q extender adds 802.11ac to your network, delivering wireless speeds up to 2.8 times faster than your wireless N network. With a total WiFi throughput up to 2 Gbps*, the WCB6200Q lets you stream HD-quality video and play online games without any glitches or lag. It's one of the most cost-effective ways to upgrade your network to next generation technology without replacing your router.

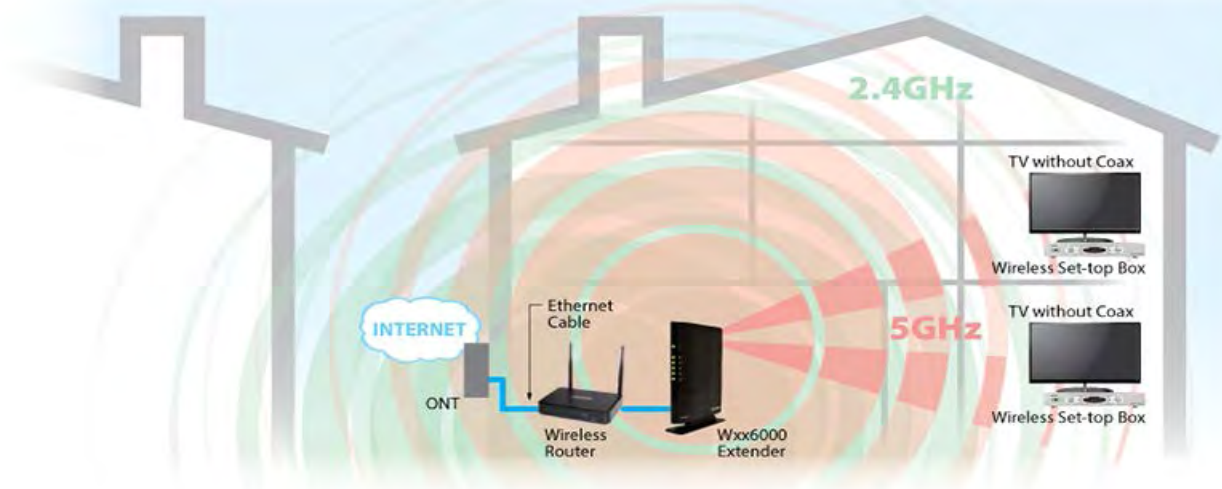
Works over the Coax Wiring Already in your Home

With MoCA technology, your home's existing coaxial wiring is instantly converted into an Ethernet network that delivers high speed Internet access to the many devices in your home. The result is a powerful whole-home network and the benefits of a wired connection, without having to run new Ethernet cables through the walls.



Optimized for Video over WiFi

Thanks to its advanced video prioritization and QoS capabilities, the WCB6200Q delivers the best possible experience for streaming HD video to the living room, no matter how far it is from the router. Carriers can prioritize data based on SSID or the packet tag, enabling them to create a separate high-performance video network that ensures video quality regardless of network traffic. The WCB6200Q acts as a video bridge, supporting multiple wireless STB video streams while adjusting the data rate in real time (via QoS) for the best possible performance.



Simultaneous Dual-Band 2.4GHz and 5GHz 11ac Radios

The WCB6200Q features dual bands, meaning it can transmit on both the 5 GHz and the 2.4 GHz wireless bands simultaneously. You can use either the 2.4 GHz or 5 GHz band for basic web browsing, while leveraging the 5 GHz band (which is cleaner and has less interference) for HD video. Most importantly, the WCB6200Q ensures all your wireless devices will connect to the right band for the fastest speeds and best performance possible.

One Wi-Fi Network for Seamless Roaming

When you add a second wireless access point or repeater to the home network, you often need to manage different wireless credentials. That means you'll need to switch over to a new network as you move from one area of the home to another... not an ideal situation when you're streaming a video. But Actiontec's Wireless Network Extender uses the same wireless credentials as the wireless gateway, so you can seamlessly roam around the house without having to worry about connecting to a new network.

2.4GHz & 5 GHz



Gigabit Speeds with Bonded MoCA Technology

With support for the latest bonded MoCA 2.0 standard, the WCB6200Q bonds MoCA channels to support speeds up to 1 Gbps through the home's existing coaxial wiring. The result is a richer home networking experience and higher performance for video and gaming apps.

The Most User-Friendly Wireless Extender on the Market

The WCB6200Q takes all the complexity out of setting up an extender in the home network. Simply connect the wireless extender to an Ethernet coax port in the home: the Actiontec gateway automatically passes all of the wireless settings to configure the adapter in seconds, or it can be configured by the TR-069 Remote Management System. You won't need to configure a thing. And the WCB6200Q uses the same WiFi network settings as the router, including the SSID, so devices can seamlessly roam between areas without having to connect to a new network.

"Tap to Connect" with NFC

Want to connect a new device to the network? With Actiontec's unique "Tap to Connect" feature, you can tap a compatible device, like a smartphone or tablet, to the network extender to instantly gain access credentials. The next time family or friends are visiting and want to connect their devices to your network, you won't have to dig out your password and network settings.



Remote Management via TR-069, TR-111 & TR-181

The extender supports multiple remote management standards, giving service providers the extensive visibility and control over the WCB6200Q as well as other customer premise equipment.



NEW! Wireless Network Manager Mobile App

The WCB6200Q works hand in hand with Actiontec's revamped Wireless Network Manager mobile app. Designed for Apple iOS and Android devices, the easy-to-use app helps you maximize your network's performance with advanced features like: naming specific devices, managing time limits for devices, and real-time speed testing throughout the home.

Features

- Fast 802.11ac/n Wi-Fi wherever you need it
- Upgrade to 802.11ac speeds without replacing your router
- Dual band concurrent radio for wireless throughput up to 2 Gbps*
 - 4x4 MIMO 802.11ac 5 GHz solution with explicit dynamic digital beamforming
 - 2x2 2.4 GHz radio
- Seamless roaming with one WiFi network name and password
- Multi-User MIMO
- Bonded MoCA 2.0
- Two Gigabit Ethernet Ports
- Support multiple concurrent HD and SD streaming in the home
- Operates in 5GHz band to support HD video reliably
- 4 Antennas enable X-Y-Z Polarization Diversity
- Wi-Fi Video Bridge
- Video QoS for HD-quality video streaming
- Wirelessly connect set-top boxes throughout the home
- Seamless Setup Options
 - Auto sync with Wireless Router/Gateway for zero configuration
 - AP/Client mode operation
 - TR-069 Controlled Setup
- Easy to use and subscriber self-install
- Tap to Connect to automatically join a tablet or smartphone or any other NFC device (optional)
- Full TR-069 with remote firmware upgrade and diagnostic capabilities
- IEEE 1905.1 compliant
- 802.11e WMM QoS and 802.1P and 802.1Q
- WPA2, WPA security with AES encryption
- Wi-Fi Protected Setup (WPS)
- Actiontec's proprietary Wireless Network Manager App enables:
 - Ability to name specific devices on the network
 - Management of time limits and scheduled access hours for specific devices
 - Real-time speed/signal testing throughout the home

Specifications

Protocol/Standards/Support

- Wireless IEEE 802.11ac
- Wireless IEEE 802.11n
- Wireless IEEE 802.11 a/b/g
- Ethernet IEEE 802.3/802.3u/802.3ab 10/100/1000 Base-T
- MoCA 1.0/1.1/2.0

Wireless

- 802.11 a/b/g/n/11ac
- 2x2 internal antenna 2.4 GHz
- 4x4 internal antenna 5 GHz
- Wireless 2.4 GHz and 5 GHz Dual Concurrent Radios
- Wi-Fi Multimedia (WMM), WMM Power Save (WMM-PS)
- 802.11e Power Saving Mode
- Automatic Power Control
- Dynamic TX Power Saving Mode

Wireless Operating Channels

- 5 GHz UNII Bands (5.15-5.35 GHz, 5.470-5.725 GHz and 5.725-5.850 GHz bands)
- 20 and 40 MHz Supported
- 80 MHz Supported in 5GHz only

Network Frequency Range

- Wireless 2.4 GHz/5 GHz

Data Rate

- Up to 1 Gbps MoCA
- Up to 1 Gbps Ethernet
- Up to 300 Mbps Wireless 2.4 GHz
- Up to 1.7 Gbps Wireless 5 GHz

Wireless Security

- Wi-Fi Protected Access (WPA, WPA2)
- Wi-Fi Protected Setup (WPS)
 - WPS Push Button
 - WPS PIN
 - Auto Configuration with Residential Gateway
- Pre-Shared Key (PSK)
- MAC Address Filtering
- AES Encryption

Video Traffic QoS (2 options)

- #1 Priority assignment based on DSCP tagged video traffic
- #2 Priority assignment based on SSID

Quality of Service and Traffic Management

- Supports IGMP v3 Snooping
- Supports IEEE 802.1p (Diff-Serv)
- Supports IEEE 802.1q VLANs

Device Management

- Password-protected access
- Statistics logging and reporting
- Remote Management: TR-069, TR-111, TR-181
- Local Management: WebUI, CLI (Telnet)

Hardware

- Flash Memory 128 MB
- SDRAM 128 MB

LAN Interfaces

- Two 10/100/1000 Ethernet
- MoCA
 - One Coaxial Jack
 - Network Size: 16 Devices
 - Network Password Protected
 - Backwards Compatible with MoCA 1.0/1.1

Physical Specifications

- LED Indicators
 - 1 Power
 - 2 Wireless
 - 2 Ethernet
 - 1 WPS Button and LED
- External Connectors
 - 2 RJ-45
 - 1 DC Power Input
 - 1 Factory Default Reset Button

Regulatory Approvals

- FCC 15B, 15C
- Canada ICES
- UL
- WiFi, WPS
- MoCA

Power Requirements

- Voltage: 12 VDC
- Maximum Current: 2A
- Energy Efficiency and Power Management Improvements

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- Maximum wireless signal rate derived from IEEE Standard 802.11g, 802.11n and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction and network overhead lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.
- Actiontec makes no express or implied representations or warranties about this product's compatibility with any future standards.
- Product photo may differ from actual product, however functionality remains as stated above.
- Specifications are subject to change without notice.