

## Wireless Network Extender with Gigabit Ethernet & 802.11ac



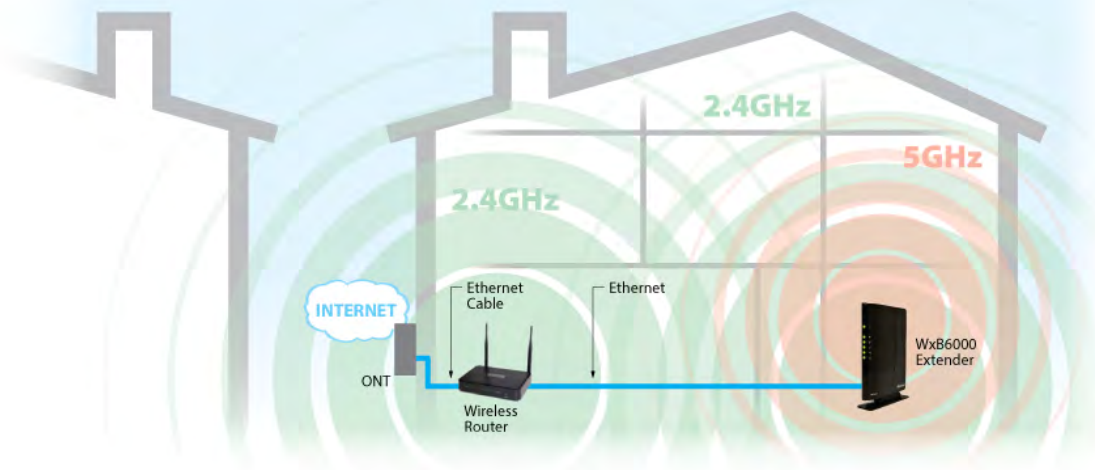
Model# WEB6000Q

### Add 802.11ac to Your Wi-Fi Network

The WEB6000Q is the most powerful wireless AC extender on the market and offers the most cost-effective way to upgrade your existing network to next generation AC technology. The wireless extender delivers wireless speeds up to 2.8 times faster than your wireless N network. With a total WiFi throughput up to 2 Gbps, the WEB6000Q lets you stream HD-quality video and play online games without any glitches or lag.

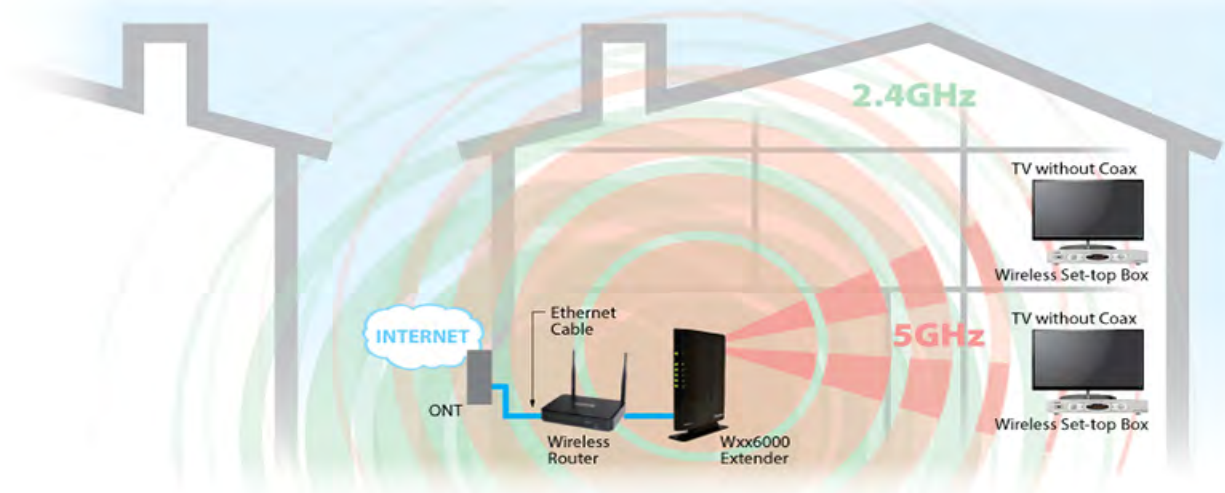
### Eliminate Wi-Fi Deadspots in Your Home

Are there dead spots in your home's WiFi network? Is your living room too far from your router to stream high quality HD video? The good news is you don't have to put up with dead spots or spotty WiFi coverage anymore. The WEB6000Q Wireless Network Extender extends the range of your WiFi network to the far corners of your home, so you and your family can enjoy faster speeds and better wireless performance wherever you need it. Using Gigabit speeds, next generation wireless AC, and video prioritization technology, the WEB6000Q turbo-charges your existing home network and delivers a better video streaming experience.



## Optimized for Video Over WiFi

Thanks to its advanced video prioritization and QoS capabilities, the WEB6000Q 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 WEB6000Q 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 WEB6000Q 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 WEB6000Q 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



### Remote Management via TR-069, TR-106, TR-111 & TR-181

The extender supports multiple remote management standards, giving service providers the extensive visibility and control over the WEB6000Q as well as other customer premise equipment.



### The Most User-Friendly Wireless Extender on the Market

The WEB6000Q 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, alternatively it can be configured by WPS or the TR-069 Remote Management System. You won't need to configure a thing. And the WEB6000Q 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.

### 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
- Two Gigabit Ethernet Ports
- 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
- 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
- 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)

## 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

### 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

### 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-106, TR-111, TR-181
- Local Management: WebUI, CLI (Telnet)

### LAN Interfaces

- Two 10/100/1000 Ethernet

### 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

### Data Rate

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

### Regulatory Approvals

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

### Hardware

- Flash Memory 128 MB
- SDRAM 128 MB

### 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.

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