



June 5, 2012

## **Broadcom Unlocks Potential of 5G WiFi with Integrated SoCs for Home and SMB Networks**

### **First to Combine High Performance Processor, Switch, PHY, USB 3.0 and Traffic Accelerators; Delivers Gigabit Connectivity, 10x Speed and 40 Percent More Power Efficiency**

TAIPEI, Taiwan, June 5, 2012 /PRNewswire/ --

#### **News Highlights:**

- Enables fastest and most reliable Gigabit connectivity for home and small/medium business (SMB) networks
- 10x faster and 40 percent more power efficient than existing solutions(1)
- Allows simultaneous video streaming to multiple users and devices in any room

Broadcom Corporation (NASDAQ: BRCM), a global innovation leader in semiconductor solutions for wired and wireless communications, today announced the industry's first System on a Chip (SoC) devices to deliver the potential of [5G WiFi](#) with high-bandwidth Gigabit connectivity to the home and SMB network. Designed as companions to its full line of [5G WiFi 802.11ac solutions](#), the new Broadcom® SoCs are the industry's first to combine a high performance processor, Gigabit Ethernet (GbE) switch, GbE physical layer transceivers (PHYs), USB 3.0 and traffic accelerators all on a single chip. Broadcom will preview the technology at [Computex](#) in Taipei, Taiwan June 5-9. Visit [Broadcom.com](#) to learn more.

As video and media consumption continues to grow, [5G WiFi](#) enabled devices and services will play a critical role in delivering reliability, higher capacity and faster throughput. Broadcom's new SoCs, the StrataGX™ series for SMB routers and network attached storage (NAS) devices and the BCM4708x series for home routers and gateways, offer a complete end-to-end solution to enable stand-alone platforms to achieve the Gigabit wireless rates that [5G WiFi](#) can deliver. The resulting connectivity will enable multiple users in the home or office to simultaneously stream video content and high bandwidth application downloads 10x faster without the buffering and interruptions associated with current networks.

The new devices also feature Broadcom's [Energy Efficient Ethernet](#) functionality, delivering an additional 70 percent reduction in power consumption while networks are active and up to 95 percent during downtime, when two-thirds of energy costs are incurred.(2)

#### **5G WiFi Acceleration**

Increased reliance on wireless networks, the explosion of video consumption, and growing number of wireless devices are all putting stress on legacy 802.11a/b/g/n networks. 5G WiFi addresses these challenges, enabling mobile device users to stream digital content between devices faster, and simultaneously connect more wireless devices to home and enterprise networks, while conserving battery power. Visit <http://www.broadcom.com/> or [www.5gwifi.org](http://www.5gwifi.org) to learn more.

#### **Market Drivers:**

- Massive traffic growth, especially video, challenges current networks(3)
- By 2016, users will own and need to wirelessly synch an average of six devices per person(4)
- Need for energy conservation and lower energy costs driving regulatory compliance in home networking

#### **Key Features:**

- High-performance 5G WiFi Gigabit connectivity to multiple consumer and SMB devices
- Acceleration engines optimized for 5G WiFi and over-the-top (OTT) direct-from-provider video/audio content
- 5x processing horsepower with increased CPU headroom enables new applications such as cloud services(5)
- Rich peripheral set supports NFC, video/audio and network storage applications
- Integrated GbE PHY/switch and regulators enable flexible, scalable solution for multiple GbE router platforms

- USB 3.0 delivers up to 10x the transfer speed of USB 2.0 for high-speed storage

## Availability

The StrataGX BCM5301x and the BCM4708x series are sampling with production release slated for the second half of 2012.

For ongoing news, visit Broadcom's [Newsroom](#), read the [B-Connected Blog](#), or visit [Facebook](#) or [Twitter](#). And to stay connected, subscribe to Broadcom's [RSS Feed](#).

## Quotes:

### Ed Redmond, Broadcom Vice President & General Manager, Infrastructure and Networking Group

*"Broadcom is well known as an industry powerhouse in innovation and integration; our latest SoCs represent our unique ability to combine the best of IP from throughout the organization. The new StrataGX solutions enable SMB networks to reach new levels of performance in video applications such as video conferencing, and the new BCM4708 solutions enable consumer networks to reach unparalleled levels of video streaming. The overall result is the ability to share and stream more high-definition video with a higher quality experience than ever before."*

### Michael Hurlston, Broadcom Senior Vice President and General Manager, Mobile and Wireless Group

*"Consumers increasingly expect to be able to access and watch video and other high-bandwidth content on their mobile devices throughout their homes, a capability that 5G WiFi enables better than any other Wi-Fi technology available on the market today. These highly-integrated SoC products will help ignite the mass market adoption of 5G WiFi and expand the ecosystem of devices capable of providing its benefits to home and SMB network users worldwide."*

### Philip Solis, Research Director, Mobile Devices, ABI Research

*"The ecosystem of the digital home and SMB networks is rapidly evolving as the use of high-bandwidth applications, adoption of new devices and need for wireless connectivity all increase concomitantly. The expectations of consumers and professionals will only continue to grow for wireless connectivity to match Ethernet speeds, while providers will need to meet traffic demands and lower energy requirements—both driving the development and adoption of this latest iteration of WiFi."*

## About Broadcom

Broadcom Corporation (NASDAQ: BRCM), a FORTUNE 500® company, is a global leader and innovator in semiconductor solutions for wired and wireless communications. Broadcom® products seamlessly deliver voice, video, data and multimedia connectivity in the home, office and mobile environments. With the industry's broadest portfolio of state-of-the-art system-on-a-chip and embedded software solutions, Broadcom is changing the world by Connecting everything®. For more information, go to [www.broadcom.com](http://www.broadcom.com).

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## Resources:

(1) Gigabit connectivity (1,000 Mbps) as compared to average wired Ethernet speeds per household of 100 megabits per second

(2) Natural Resource Defense Counsel, 2011. "Better Viewing, Lower Energy Bills, and Less Pollution." <http://www.nrdc.org/energy/settopboxes.asp>

(3) Cisco Visual Networking Index, 2011. "More than 100 percent CAGR since 1990."

(4) Cisco Visual Networking Index, 2011

(5) Current solution offers 1000 to 1200 DMIPS; BCM5301x and 4708x series offers up to 5000 DMIPS

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