



Broadcom Enables Mobile Device Content to Escape the Tiny Screen with Wi-Fi Display

Broadcom Wi-Fi Now Optimized to Stream HD Movies and Game Play from Smartphone, Tablet or Laptop Displays to Large Screen HDTVs

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News Highlights

- World's most complete and robust Wi-Fi Display software connects mobile devices to TVs for real-time game play and high quality movie viewing on the big screen.
- Broadcom's Wi-Fi Display stack leveraging best-in-class 2.4 and 5 GHz Wi-Fi is now compatible with 3rd party mobile, set-top box (STB), and DTV SoCs.
- Mobile solution tightly integrated into Broadcom's smartphone and tablet platforms delivering superior, ultra-low power performance.
- STB solution integrated into Broadcom's market-leading 40nm STB SoC line of products.

Broadcom Corporation (NASDAQ: BRCM), a global innovation leader in semiconductor solutions for wired and wireless communications, today announced the world's most complete and robust Wi-Fi Display software stack that allows users of smartphones, tablets and laptop computers to play games, video and thousands of apps on a larger HDTV screen by transmitting the mobile screen images over a wireless connection. Broadcom will be demonstrating its end-to-end solutions for both "source" and "sink" devices at the 2012 International CES. Visit [Experience Broadcom @ CES](#) for more news, blogs and multi-media from the show.

Enabling the Phone to TV Revolution

With the increased availability of faster mobile networks, end users are using more bandwidth-intensive applications and consuming significantly more high definition video on their mobile devices. Wi-Fi Display couples Wi-Fi and H.264 video encoding technology to allow the consumer to seamlessly move the mobile user interface from a small screen to a bigger display while maintaining control via the touch screen. Since consumers demand real-time interaction with games, movies and apps, only the best implementations of Wi-Fi that are tightly integrated with high quality video codecs will result in a solid user experience.

Broadcom's best-in-class Wi-Fi solutions for mobile and STB/TV have been engineered to minimize packet loss and mitigate interference while maximizing screen resolution and picture quality. In addition, as [5GHz Wi-Fi](#) based on the 802.11ac standard enables wireless network bandwidth over 1 Gigabit per second, Wi-Fi Display will be able to seamlessly stream ultra-high definition content such as new 2K and 4K resolution digital media between devices.

Standards and Third Party Support

The Wi-Fi Display specification driven by the Wi-Fi Alliance is based on mature H.264 and 802.11 standards. Broadcom is fully supporting and contributing to the Wi-Fi Alliance process to achieve full interoperability among suppliers of "source" devices that send an encoded video signal and "sink" devices that can receive the encoded video signal. Broadcom is working with multiple third party partners as well as tightly integrating the technology into its own STB and mobile SoCs to ensure the highest quality end-to-end user experience.

Product Portfolio Key Facts

Wi-Fi Display Source Hardware / Software:

- Broadcom tablet and smartphone reference platforms with BCM4330 1x1 dual band Wi-Fi and Bluetooth low energy

- (BLE) support
- HDMI to Wi-Fi adapter reference platform:
 - BCM2763/BCM2835 VideoCore® IV encode engine with BCM43236B 2x2 dual band Wi-Fi
- Linux reference code portable to major 3rd party application processors for use with qualified Broadcom® Wi-Fi chips

Wi-Fi Display Sink Hardware / Software:

- Set-top-box reference design:
 - BCM7230 family STB SoC plus BCM43236B 2x2 dual-band Wi-Fi
- HDMI Dongle reference design:
 - BCM2835 family VideoCore IV decode engine with BCM43236B 2x2 dual-band Wi-Fi
- Linux reference code portable to major 3rd party application processors for use with qualified Broadcom Wi-Fi chips

Quote:

Bill Bunch, Senior Director, Marketing, Wireless Media Group, Broadcom

"Consumers are amazed to see all of their mobile phone's apps and high-quality content released from its small screen and appearing on their large screen TVs at very high quality with no observable delay. To use Wi-Fi Display, there is nothing new to learn; favorite games, movies, pictures and apps magically appear on the big screen. By melding together the video stack, networking layers and best-in-class Wi-Fi technology, Broadcom delivers all the necessary elements for a solid consumer experience while maintaining interoperability through the forthcoming Wi-Fi Display standard."

Michael Rayfield, General Manager of the Mobile business at NVIDIA

"Broadcom's Wi-Fi Display is a perfect match for devices powered by the NVIDIA Tegra 3 Processor. The full range of experiences that Tegra 3 enables — console-quality gaming, streaming HD videos, new multi-core apps — can now be easily enjoyed on a large screen. Wi-Fi Display helps further the mobile revolution."

Kevin Kang, VP of Sales and Marketing, MStar Semiconductor, Inc.

"MStar Semiconductor strives to offer industry-leading, comprehensive and innovative solutions for its TV customers. By working with Wi-Fi Display collaborators such as Broadcom, we can take advantage of integrating Wi-Fi Display into our TV platforms to further broaden MStar's solutions and features and allow our worldwide TV customers to provide consumers with more enriching and entertaining viewing experiences."

Conway Lee, CEO & President of BenQ Corporation

"Broadcom offers Wi-Fi Display standard based solutions with low latency, high resolution and superior performance that match our product strategy to bring seamless wireless connectivity to our next generation networked digital lifestyle devices that feature superb picture quality and ease-of-use like smart LCD monitors and projectors. We look forward to their new 802.11ac solutions that will reshape the home entertainment ecosystem with Gigabit wireless speeds."

Joe Ye, CEO of Cywee Group, Ltd.

"Smart mobile devices are continuing to grow and the desire to share content and streaming video wirelessly to large screens is strong. Broadcom is well positioned to bring high quality solutions to this emerging market with its world leading technology in Wi-Fi and digital video processing. We are very pleased to work with Broadcom to provide exciting products to consumers that can transform existing TVs into Smart TVs which seamlessly sharing HD video over wireless connection."

Resources:

http://www.broadcom.com/products/?industry_id=2

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.

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