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Quantenna Announces World's First 802.11ax Wi-Fi Solution

New QSR10G-AX Access Point Product Supports Latest 802.11ax Draft 1.0 Specification

LONDON, UNITED KINGDOM--(Marketwired - October 17, 2016) - Broadband World Forum 2016 -- [Quantenna Communications](#), a leader in ultra-high performance Wi-Fi, today announced the industry's first 802.11ax Wi-Fi chipset, the QSR10G-AX. This product is built on Quantenna's QSR10G Wave 3 802.11ac Wi-Fi platform and adds support for the draft 1.0 of the IEEE specification 802.11ax standard.

As Wi-Fi usage continues to grow, the Wi-Fi 802.11 IEEE standard evolves to cope with the augmented complexity of Wi-Fi networks. 802.11ax was designed with the goal of increasing Wi-Fi networks' efficiency in dense deployments such as multi-dwelling units. In addition, it improves Wi-Fi network capacity and performance in terms of its ability to support more simultaneous clients. Lastly, 802.11ax provides increased speed over 802.11ac. All of these improvements are helpful for businesses, public venues, and also in homes where the number of clients continues to grow due to the proliferation of mobile and Internet of Things devices.

Quantenna continues to lead the Wi-Fi industry by announcing the world's first 802.11ax Access Point solution. The QSR10G-AX solution will support 12 total streams: 8 streams in the 5GHz band and 4 streams in the 2.4GHz band. QSR10G-AX adds support for downlink and uplink OFDMA (Orthogonal Frequency-Division Multiple Access), providing superior network efficiency in dense environments as well as high uplink performance. OFDMA dedicates different sub-carriers for individual client devices. This allows multiple devices to be simultaneously served.

QSR10G-AX is designed to enable a very easy and fast transition for existing QSR10G customers. The QSR10G-AX chipset is pin-to-pin compatible with QSR10G, Quantenna's Wave 3 12-stream dual-band 802.11ac and 802.11n access point solution. As a result, customers designing with QSR10G solution will be able to drop in the new QSR10G-AX solution.

"Innovation is what drives us at Quantenna," said Dr. Sam Heidari, Chairman and CEO at Quantenna. "We were the first company to deliver 4x4 802.11n, 4x4 802.11ac and 8x8 802.11ac. Now, we are proud to continue our Wi-Fi industry leadership by being the first to announce an 802.11ax compliant solution."

"Quantenna is launching another leading-edge Wi-Fi solution to the market. 802.11ax represents the next evolution of Wi-Fi and increases throughput and capacity needs for our end markets," said Venkat Sundaresan, Director of Product Management, Cavium Inc. "This innovative access technology will allow our powerful processor solutions to deliver new levels of performance, scalability and capacity."

"Quantenna has once again demonstrated its pioneering innovation and leadership in the Wi-Fi market with the announcement of the QSR10G-AX," said Andrea Goldsmith, Stephen Harris Professor of Electrical Engineering at Stanford University. "This technology, which incorporates the 802.11ax protocol, is a leap forward for Wi-Fi through the access technique of OFDMA. The more flexible, efficient, and adaptive use of the Wi-Fi spectrum enabled by OFDMA will increase the data rates of the QSR10G-AX over current products, while also supporting in a reliable and scalable manner the growth of client devices in dense deployments. The transformative technology of the QSR10G-AX will be beneficial for high-performance Wi-Fi devices as well as emerging applications in the IoT."

Key QSR10G-AX Planned Features and Benefits

- | Integrated AP chipset for dual-band (5GHz and 2.4GHz), dual concurrent operation and management
- | Pin-to-Pin compatibility with QSR10G
- | 802.11ax Draft 1.0 compliant
- | 12-stream operation
- | Supports rich set of interfaces to external hosts such as PCIe Gen3/Gen2, RXAUI, RGMII, and others
- | Support 2.4GHz coexistence interface
- | Enable full offload for external host
- | Cloud managed

Availability

Quantenna's QSR10G-AX is expected to sample to early access partners in the early part of 2017.

Quantenna is exhibiting in its private meeting room at Novotel ExCel during Broadband World Forum in London on October 18 and 19, 2016.

About Quantenna

[Quantenna](#) is a global leader and innovator of leading-edge performance Wi-Fi solutions. Quantenna introduced the world's first 10G Wi-Fi technology for a new generation of access points in home, enterprise and public spaces and continues to innovate. Quantenna's Wi-Fi solutions offer superior performance, and establish benchmarks for speed, range, efficiency and reliability. With MAUI, Quantenna's cloud-based Wi-Fi analytics platform that complement its chipset solutions, service providers can deliver real-time, automated Wi-Fi monitoring, optimization, and self-healing to their customers around the clock to help achieve the best Wi-Fi experience. Quantenna is Wi-Fi perfected. For more information, visit www.quantenna.com. Follow us on [Facebook](#), [LinkedIn](#) and [Twitter](#).

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