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Quantenna Announces QSR5G-AX, an 802.11ax Dual 4x4 Wi-Fi Access Point Solution targeting the Mainstream Wi-Fi Segment

New QSR5G-AX Access Point Solution Complements Best-in-Class QSR10G-AX 12-Stream Solution Announced in Oct 2016

LAS VEGAS, Jan. 05, 2017 (GLOBE NEWSWIRE) -- [Quantenna Communications](#), Inc. (Nasdaq:QTNA), a leading provider of high performance Wi-Fi solutions, today announced a new 802.11ax product called QSR5G-AX with support for dual-band, dual concurrent 4x4 + 4x4 operation. This product joins Quantenna's QSR10G-AX, the world's first dual-band, dual concurrent 8x8 + 4x4 802.11ax 12-stream Access Point solution previously announced in October 2016.

"802.11ax advancements promise to expand the Wi-Fi market particularly in segments where there are higher user densities such as the home, enterprise and public venues. We estimate that the total 802.11ax enabled device shipments will increase from 116 thousand units in 2019 to 58 million units in 2021*," said Christian Kim, Senior Analyst IoT, Connectivity, and Telecom Electronics at IHS Markit.

As service providers and device manufacturers bring increasing bandwidth and services to the home, consumer demand for faster and more robust Wi-Fi continues to rise. Wi-Fi must continue to support an ever increasing array of mobile and Internet-of-Things (IoT) devices and do so more efficiently in denser environments, such as multi-dwelling units (MDUs).

802.11ax is designed to address these demands through improved bandwidth efficiency. Orthogonal Frequency-Division Multiple Access (OFDMA) is added in order to allow simultaneous operation of many clients which increases overall network capacity. In addition, network efficiency is also improved as OFDMA preambles (the portion of the frame used for network synchronization) can be shared amongst all client devices. Since OFDMA is a scheduler-based approach, there is less contention between client devices and the access points for access to the air. Therefore, the 802.11ax access point allows client devices to have longer sleep times enabling extended battery life. Finally, 802.11ax allows these improvements in both 2.4GHz and 5GHz bands, supporting applications that need long range in 2.4GHz frequencies as well as applications which demand higher speed and denser network coverage in the 5GHz frequencies.

The QSR5G-AX solution supports 8 total streams of 802.11ax: 4 streams in the 5GHz band and 4 streams in the 2.4GHz band. QSR5G-AX joins Quantenna's 12-stream QSR10G-AX chipset to form a complete family of 802.11ax access point solutions that address both mainstream and high-end markets. These 802.11ax access point solutions are designed to be compatible to both future 802.11ax client devices as well as existing Wi-Fi client devices such as Quantenna's best-in-class 802.11ac/n/a/g/b solutions.

"802.11ax is the future of Wi-Fi," said Dr. Sam Heidari, Chairman and CEO at Quantenna. "We have applied our considerable expertise in RF, digital signal processing, Wi-Fi protocol and software to deliver the world's most compelling 802.11ax solutions. QSR5G-AX is the latest embodiment of our technology and expertise. We are proud to offer it to the market and continue our Wi-Fi industry leadership."

Key QSR5G-AX Features and Benefits

- | Integrated AP chipset for dual-band (5GHz and 2.4GHz), dual concurrent operation and management
- | 802.11ax compliant
- | 8-stream operation
- | Supports rich number of interfaces to external hosts
- | Supports 2.4GHz coexistence interface for external Internet-of-Things radios
- | Enable full offload for external host
- | Supports SONiQ, Quantenna's software solution for multiple Access Point/Repeater management and operation
- | Cloud managed

Availability

Quantenna's QSR5G-AX will be sampling early versions to early access partners in the first half of 2017.

Quantenna is exhibiting in its private meeting room at the Palazzo Resort Hotel Casino during the Consumer Electronics Show in Las Vegas from January 5 to 8, 2017. To set up a meeting and learn about the latest Quantenna Wi-Fi solutions,

please contact: tradeshow@quantenna.com.

About Quantenna

[Quantenna](#) (Nasdaq:QTNA) 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.

*Information based on IHS Markit, Technology Group, High Performance Wireless Intelligence Service. Information is not an endorsement of Quantenna Communications. Any reliance on these results is at the third party's own risk. Visit www.technology.ihs.com for more details.

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