STMicroelectronics and Quantenna Unveil Highly Compact 4K Wi-Fi Client Reference Design

- *Combining latest Ultra HD HDR-capable platforms (Cannes 4K) from ST with 4x4 802.11ac Wi-Fi (QSR1000) from Quantenna*
- *Highly compact reference-design box enables unmatched coverage, portability, multi-room usage*

Geneva, Switzerland, and Fremont, Calif. – January 7, 2016 – STMicroelectronics (NYSE: STM), a global semiconductor leader serving customers across the spectrum of electronics applications, and [Quantenna Communications, Inc.](), the leader of ultra-high performance Wi-Fi, today announced the availability of a reference design enabling premium 4K video quality over home Wi-Fi networks, demonstrated in a highly compact, fan-less box. The reference design offers superior indoor coverage, better portability, and multi-room usage.

"This new collaboration between ST and Quantenna is a natural step to address the 4K Ultra HD market after the announcement at IBC 2015 of the ST Cannes Wi-Fi (STiH390) SoC, the world's first single-chip device for HD set-top-box wireless-client markets," said Eric Benoit, Headed Product-Line Director, Consumer Product Division, STMicroelectronics. "The integration paves the way to a cost-effective and flexible 4K wireless solution for an impeccable multimedia experience at home."

The new reference-design box integrates ST's performance-proven Cannes 4K ARM® quad-core SoC. Commercially available, it is already pre-integrated with leading middleware and supported by a large ecosystem that enables customers to rapidly build attractive solutions with short time to market.

The ST Cannes 4K SoC is optimized for both cost and performance, and when combined with Quantenna QSR1000, it relies on a 4x4 MIMO architecture supporting DynaMMO (Dynamic multi-user MIMO) technology, dynamic digital beamforming, and four spatial streams to deliver ultra-high performance, range, reliability, and coverage. Standards-based, the ST/Quantenna reference-design operates with all third-party 802.11ac and 802.11n devices.

"Equally comfortable in set-top boxes, OTT platforms, and consumer electronics at home, the QSR1000 is perfectly suited to wireless multimedia applications that demand cable-like video-transmission quality," said Harpreet Chohan, Senior

Director, Product Marketing, Quantenna Communications. "With almost 2Gbps of total throughput, this reference design streams robust carrier-grade IPTV to multiple devices in full 1080p or 4K Ultra HD resolution, designed to reach through concrete walls and into all corners of multi-story homes."

ST and Quantenna are demonstrating the new Cannes 4K Wi-Fi reference design in their private suites in Las Vegas during the industry's major technology showcase, January 6-9, 2016.

About STMicroelectronics
ST is a global semiconductor leader delivering intelligent and energy-efficient products and solutions that power the electronics at the heart of everyday life. ST's products are found everywhere today, and together with our customers, we are enabling smarter driving and smarter factories, cities and homes, along with the next generation of mobile and Internet of Things devices. By getting more from technology to get more from life, ST stands for life.augmented.

In 2014, the Company's net revenues were $7.40 billion, serving more than 100,000 customers worldwide. Further information can be found at www.st.com.

About Quantenna Communications, Inc.
Quantenna is the global leader and innovator of ultra-high performance Wi-Fi semiconductor and system software solutions that establish benchmarks for speed, range, efficiency and reliability. Quantenna continues to innovate and introduced the world's first 10G Wi-Fi technology for a new generation of access points in home, enterprise and public spaces. Quantenna Wi-Fi solutions are generations ahead of any other available solution; while transmitting faster, reaching farther and serving more devices more reliably than any other Wi-Fi solution ever created. Coupled with MAUI, the cloud-based Wi-Fi analytics platform, service providers can deliver real-time, automated Wi-Fi monitoring, optimization, and self-healing to their customers around the clock to offer the best Wi-Fi experience.

Quantenna's Wi-Fi chipsets are being deployed by Tier One retail OEMs and telecom, cable and satellite service providers worldwide including AT&T, DirecTV, Orange and Telefonica. With the industry's highest performing Wi-Fi solutions, Quantenna is Wi-Fi Perfected. For more information, visit: www.quantenna.com. Follow us on Facebook, LinkedIn and Twitter.

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