

Solving the Whole Home Wireless Networking Challenge



Founded

Quantenna was founded in 2006 by leading experts in the semiconductor, wireless and networking industries with a shared vision of creating wireless semiconductor solutions that solve the whole home wireless networking challenge and how to reliably get HD video from the PC to the TV screen using ubiquitous Wi-Fi technology.

Financing

The company has received more than \$50 million in funding from leading venture capital firms, including Grazia Equity, Sequoia Capital, Sigma Partners, Southern Cross Venture Partners and Venrock Associates.

Management Team

Quantenna is led by a team of experienced executives with a long track record of building successful companies and taking them to IPO:

David French

Chief Executive Officer

Behrooz Rezvani, Ph.D.

Founder, President and Chairman

Lionel Bonnot

Vice President, Sales

Marc Mertsching

Vice President, Engineering

Sam Heidari, Ph.D.

Vice President, Systems and Software Engineering

Narayanan Bharath

Vice President, Customer Engineering

Company

Quantenna has over 60 employees with a majority being PhDs. The company is headquartered in Fremont, California with offices in India and Taiwan.

Quantenna Communications, Inc.

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Company Overview

Quantenna Communications, Inc. is a leading developer of Full-11n™ semiconductor solutions for the next generation of ultra-reliable, 802.11n Wi-Fi networks that are capable of delivering up to HD video quality with 1080p resolution, anywhere in the home. Quantenna is focused on helping to enable a new wave of wireless networking and digital entertainment products and services that meet significantly higher expectations for quality and service deployment reliability.

Quantenna's technology is targeted at devices such as home residential gateways, set-top boxes, routers, HDTVs and consumer electronic devices. These products all require extremely predictable performance, rock-solid reliability, and easy service deployment in order to support whole-home, full HD video distribution and networking services over standard Wi-Fi networks.

HD Video Wi-Fi Technology

Quantenna Full-11n chipsets are the industry's first fully integrated, standards-based 802.11n Wi-Fi chipsets to include the full complement of 802.11n features, including 4x4 multiple input/multiple output (MIMO) technology, dynamic digital beamforming, mesh networking, and channel monitoring and optimization. These features enable dramatically higher levels of Wi-Fi quality and reliability for whole-home networking and HD video entertainment.

Quality and Reliability Advantage

Quantenna's unique combination of Full-11n technologies effectively achieves improvements of up to five times the coverage and as much as twice the throughput of existing, alternative solutions. Networks based on Quantenna's Full-11n technology will deliver the same quality as wired Ethernet, and support the so-called "Gold Standard" for carrier deployment of wireless networking and digital entertainment, including at least 100 Mbps data rates, over at least 100 feet, nearly 100 percent of the time, regardless of signal impairments and other interferences in the home.

Quantenna's Products

Quantenna products enable a new level of ultra-reliable, whole-home wireless networking, for the best possible consumer experience. Quantenna's 4x4 MIMO wireless solutions include:

- **QHS600x:** The world's first Full-11n 4x4 MIMO solution. Applications include wireless video bridge for video delivery throughout the home and ultra-reliability over Wi-Fi. Operating in the IEEE 802.11a/n 5GHz frequency band, the QHS600x supports high PHY/data link speed with superior wireless data throughput with maximum range. With dynamic digital beamforming the QHS600x delivers ultra-reliable HD-quality video to multiple rooms and devices simultaneously.

Features

Protected by 14 core and fundamental patents, Quantenna's family of Full-11n solutions delivers industry-standard wireless networking and digital entertainment while pioneering a new level of consumer quality and carrier deployment reliability.

- **Whole-home coverage of any size of residence, regardless of "dead" zones and other interferences:** Quantenna technology ensures whole-home coverage by including the entire complement of Full-11n features, including 4x4 MIMO, dynamic digital beamforming, mesh networking, and channel monitoring and optimization.
- **Unrivalled reliability and performance:** Quantenna chipsets are the first and only to deliver at least 100 Mbps data rates, over at least 100 feet, nearly 100 percent of the time, through near-zero packet error rate (PER) data transfers anywhere in the home.
- **Unmatched integration with industry-low BOM cost:** Quantenna's Full-11n solutions eliminate the need for additional front-end module devices such as external high-efficiency power amplifiers (Pas) with low-noise amplifiers (LNAs), or variable gain amplifiers (VGAs), switches, baluns or diplexers. Designers can achieve superior performance with significantly lower total BOM costs as compared to alternative solutions.
- **High level of Security and Quality for Services (QoS):** Quantenna ensures content and privacy security without compromising performance by using an integrated digital signal processing (DSP) engine for higher-layer security acceleration. The company's Full-11n solutions comply all Wi-Fi security standards, as well as Wi-Fi multimedia (WMM) 802.11e QoS specifications that allow for reliable handling of multimedia transmissions between various third-party Wi-Fi devices.
- **Simplified Setup:** A number of Quantenna features ensure ultra-simplified setup, including auto detection of access point and bridge mode, and security pre-configuration via single-touch Wi-Fi Protected Setup when new devices are added to the network.



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