

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 delivered guaranteed high-speed wireless bandwidth anywhere, anytime.

Financing

The company has received more than \$27 million in Series A and B funding from some of Silicon Valley's most esteemed venture capital firms, including Sequoia Capital, Venrock Associates, Sigma Partners and Grazia Equity.

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:

- **Behrooz Rezvani**, Ph.D., founder, chairman and chief executive officer
- **Andrea Goldsmith**, Ph.D., co-founder and chief technology officer
- **Lionel Bonnot**, vice president of Sales
- **Marc Mertsching**, vice president of Engineering

Company

Quantenna has offices in India, Europe and the United States. The company is headquartered at:

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Company Overview

Quantenna Communications, Inc. is a leading developer of silicon for intelligent wireless networking that delivers guaranteed high-speed wireless bandwidth in any size home, anytime, anywhere. The company's patented technology ensures guaranteed bandwidth in Wi-Fi home networks, wireless enterprise networking systems and consumer electronics devices. The Quantenna family of standards-compliant 802.11n silicon offers unprecedented performance of up to 1 Gbps for real-time video, Internet protocol television (IPTV) and high-definition television (HDTV) transmissions over wireless networks within homes and the reliability carriers demand to deliver triple-play services.

Value Proposition

Today, other wireless chipsets in the market offer spotty performance, limited coverage, poor reliability and unpredictable bandwidth. The Quantenna family of chipsets is the only semiconductor solution that can deliver guaranteed and predictable bandwidth across any size home or office network by combining a 4x4 radio transceivers/antenna, concurrent dual band mode, mesh networking and transmit (Tx) beamforming. With its advanced CMOS Power Amplifier (PA) technology, Quantenna has integrated high-efficiency PAs to enable game-changing size, power, and performance along with the lowest bill of materials (BOM) cost.

The Market Opportunity

Quantenna serves multiple segments of the wireless market with advanced silicon solutions that establish a new, significantly higher standard of performance and reliability for home networking, carrier deployment, enterprise networks and consumer electronics. While a vast majority of consumers are eager to upgrade their existing 802.11a/b/g Wi-Fi devices to 802.11n, they would do so only if there is a significant improvement in the reliability. Quantenna's guaranteed Wi-Fi bandwidth solution gives consumers the long-awaited reason to upgrade to 802.11n. The Quantenna family of chipsets was developed for:

- **Home networking:** Home gateways, access points and intelligent access.
- **Enterprise wireless LAN:** High-end routers, mesh plugs, LCD projectors, printers, laptop and desktop computers.
- **Carrier Triple-Play Services:** WLAN access points, intelligent access plugs, DSL home gateways, cable gateways, set-top boxes.
- **Consumer electronics:** Flat panel TVs, personal video recorders, game consoles, video cameras.

Quantenna's Products

Quantenna's family of wireless solutions includes a broad range of products:

- **QHS1000:** A fully integrated chipset solution with up to 1 Gbps performance. It is available as a dual 4x4 or quad 2x2 and operates on both the 2.4 and 5 GHz spectrums concurrently.
- **QHS600:** A fully integrated single chip solution with up to 600 Mbps link speed. The chip is available as single 4x4 or dual 2x2 and operates on the less crowded 5 GHz spectrum for bandwidth-intensive applications such as video.
- **QHS450:** A fully integrated single chip solution with up to 450 Mbps link speed. It is available as single 4x4 or dual 2x2 and operates on 2.4 GHz spectrum for data-intensive applications.
- **Quantenna OS:** A full-featured access point operating software that runs on the Quantenna family of products, dramatically reducing development time frames for equipment vendors. Quantenna also enables equipment vendors to port their own software features on to Quantenna chipsets to further reduce BOM cost.
- **Quantenna Plug:** A fully functional, small form factor access point that plugs directly into an electrical outlet. The Quantenna plug features an integrated mesh network element that acts as a reference system. It comes with a development kit that includes schematics, Gerber files and the BOM, and uses the QHS 1000 silicon and the Quantenna OS.

Technology

Quantenna's family of advanced wireless silicon solutions delivers guaranteed Wi-Fi bandwidth for distribution of multimedia services within the home. Quantenna is pioneering a new paradigm in wireless networking by offering:

- **Highest data rate:** With link speeds up to 1 Gbps and data throughput up to 600 Mbps, consumers can enjoy faster downloads and increased productivity.
- **Total coverage of any size home, anywhere:** Integration of mesh networking capability with spectrum management in the Quantenna chipsets ensure total coverage of the entire home despite interferences.
- **Unrivalled reliability and robustness:** The Quantenna chipsets are the first and only silicon on the market today to employ 4x4 MIMO radio transceivers and Tx beamforming. Together, these technologies deliver 50 percent better performance than other 802.11n
- **Unmatched integration:** Quantenna offers the first 802.11n chipset with concurrent dual mode and an integrated high-efficiency power amplifier (PA) with 18 dBm output power, LNA, VGA, switches, baluns, and diplexers. Quantenna's products offer the ability to choose the spectrum so the less crowded 5 GHz band can be allocated for real-time video and multimedia, while legacy data applications can use the more crowded 2.4 GHz band.
- **Lowest BOM cost:** Because vendors can now achieve superior performance with the highly integrated Quantenna chipset – instead of requiring multiple chips and boards to achieve lesser performance – the total BOM cost is significantly reduced.
- **High level of Security and Quality for Services (QoS):** Quantenna's compliance with the Wi-Fi security standards – such as wired equivalent privacy (WEP), Wi-Fi protected access (WPA) and Radius – provides consumers, carriers and businesses with the highest level of security for their wireless networks. Compliance with Wi-Fi multimedia (WMM) 802.11e QoS features allows for reliable handling of multimedia transmissions between various third-party Wi-Fi devices.



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