

Company Profile:

Founded - 2006
Rehovot, Israel (Head Office)
Toronto, Canada
www.beamnetworks.com

Current Investors:

SMI Ventures

Management Team:

Avigdor Berlin - CEO
Alberto Milano - CTO
Stacy Joseph - VP Marketing & Business Development

Board of Directors:

Larry Krauss - Chairman
Alberto Milano - Co-founder

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Business Summary

Beam Networks has developed a unique and innovative 60 GHz wireless technology capable of supporting multi-gigabit per second data rates. Why is this exciting and compelling? Beam's wireless technology will enable communications and computing products to transfer gigabytes of content in seconds rather than the long wait times experienced today. High definition video can be transported over-the-air in its full, uncompressed native form. The need for expensive and cumbersome cabling can be replaced with a 60 GHz wireless link which eases setup and expands placement flexibility. Expensive, high-capacity, last-mile fiber optic networking links can be also be replaced with Beam's multi-gigabit high-bandwidth wireless solution. Beam has chosen to focus exclusively on developing a 60 GHz analog universal transceiver, which has proven to be a highly capital-efficient approach. Beam is working in close partnership with IBM to commercialize this wireless solution. Beam was nominated to become a contributing member of the recently-formed Wireless Gigabit (WiGig) Alliance which is working towards a 60 GHz standard for interoperability between computing, communications and consumer devices.

Technology Solution

The genesis of Beam's technology has its roots in radar and data transmission research commercialized from the Israeli defense establishment. Beam's 60 GHz wireless transceiver is based on combining silicon germanium RF chip technology and an extremely small array of antenna patches to generate a focused, high power density beam which is insensitive to interference and can pass through or reflect off of walls. Unique analog beam steering electronics allow the Beam transceiver to simplify and eliminate costly baseband processing, leading to an overall lower wireless solution cost. Beam's analog beam steering approach is independent of any particular baseband solution, allowing support for multiple standards or proprietary approaches. This baseband-independent approach results in the investment funds being applied to the very challenging (but requiring far fewer engineering resources) analog transceiver design, resulting in a far more capital-efficient model than competing approaches.

Market Opportunity

Industry consensus is rapidly building in support of the 60 GHz frequency band as the next major leap forward in high-capacity wireless networking. The Wireless Gigabit Alliance, with backing from major companies such as Intel, Microsoft and Apple, is working towards converging 60 GHz wireless with the popular WiFi standard. This industry effort will accelerate wireless penetration into communications/networking, computing, industrial and security applications. ABI Research forecasts that over 700 million wireless connectivity products will ship by 2014. Beam's goal is to become the universal 60 GHz transceiver of choice for standards-based and proprietary products.

Management Team

CEO Avigdor Berlin has over 35 years of experience in aerospace and defense industries. Avigdor was previously interim CEO and VP of Israel Aerospace Industries (IAI), North America. CTO and co-founder Alberto Milano spent many decades designing antenna, radar and microwave systems for military and commercial applications. Alberto spent 10 years with Elta / IAI. Stacy Joseph, VP Marketing and Business Development, has 17 years of semiconductor experience from senior marketing and sales roles at Texas Instruments, Quicklogic and Silicon Optix.

Industry Memberships:

