

## HighBeam Research

**Title:** PARKERVISION DEVELOPS INTEGRATED WLAN TRANSCEIVER CHIPS.

**Date:** 9/1/2002; **Publication:** LAN Product News;

ParkerVision, Inc.'s (NASDAQ:PRKR) Direct2Data Technologies division has completed the development and successful testing of wireless LAN radio (WLAN) transceiver chips, which are based on the company's unique wireless technology, called D2D. The company's unique WLAN chips are designed for the fastest growing WLAN standard, known as 802.11b, which is also referred to as Wi-Fi.

The company now is beginning to provide samples to prospective customers, with volume production quantities expected to be available within the next 4 to 6 months. ParkerVision believes its D2D chip technology will significantly alter the radio wireless marketplace, enabling products to enjoy far greater technological efficiencies and power consumption savings and to be produced at substantially reduced cost.

The successful completion of testing of this unique chip by the Direct2Data division of ParkerVision means that the company will now move forward with the commercial launch of its D2D wireless technology products business. Initially the Direct2Data division will focus on wireless LAN applications and is expected to expand into CDMA mobile phone applications in 2003.

The WLAN chips are being introduced as the PV-1000 product line based on the company's unique transmitter and receiver D2D radio frequency technology. The PV-1000 product line consists of the PV-1000Hb IC targeted for the SoHo (small office/home office) market and the PV-1000Eb IC targeted for the Enterprise market. The company is confident that both PV-1000 IC products are the most highly integrated 802.11b WLAN transceivers available for their respective target applications and levels of performance.

Commenting on this product and technology milestone, David Sorrells, ParkerVision's CTO and wireless division co-founder, stated, "We are very excited that ParkerVision's Direct2Data division is bringing to market an innovative IC product line that addresses the needs of the entire market spectrum of 802.11b applications. Our PV-1000Hb delivers superior SoHo performance while achieving the lower cost objectives that this volume-oriented market requires. The PV-1000Eb provides the necessary extended sensitivity and dynamic range to meet the high performance needs of the Enterprise market -- which translates to the longest operational distances possible, combined with the greatest number of users. Both products achieve significantly lower cost and reduced power consumption solutions for their respective applications.

"Our unique energy sampling approach to RF data extraction and modulation, which we have trade named D2D, provides the solid foundation for these product targets to be achieved. Unlike transceiver IC's that are based on traditional heterodyne mixers, the

D2D technology achieves the simultaneous goals of cost, size, and power consumption without sacrificing the transceiver performance that designers have come to rely on from the traditional high performance Super Hets that the PV-1000 products replace," he continued.

Jeffrey Parker, ParkerVision's chief executive officer, stated, "Our Direct2Data Technologies division is poised to create substantially enhanced value for the radio wireless marketplace and, in turn, for ParkerVision and our shareholders. ParkerVision's D2D technology delivers performance comparable to that of today's high quality mainstay technology, Super Heterodyne transceivers. However, in sharp contrast, D2D consumes less power, occupies less space, greatly reduces the number of required components, and costs less in both bill of materials and manufactured cost."

Parker added, "Now that the Direct2Data Technologies design team has reduced to a science our D2D chip transceiver development, and it has technologically achieved the figures of merit that we have anticipated, we look forward to the timely introduction of additional products. We fully expect to be able to announce follow-on WLAN products later this year as well as the introduction of a CDMA RF transceiver product platform in 2003."

Brief highlights of the PV-1000 product line are:

- \* Compatible with all 802.11b baseband processors designed for use with Super Heterodyne or Zero-IF Transceivers
- \* Sensitivity and operational dynamic range performance comparable to quality Super Heterodyne transceiver performance of their respective target market
- \* PV-1000Eb power consumption that is less than 50% of the equivalent performance receivers
- \* Fewest number of external supporting components and smallest footprint requirement when compared to comparable performing transceivers
- \* Enhances ease of manufacturing by reducing or eliminating; shields, external parts, tuning, and complex design layout
- \* Paves the way for the lowest manufactured cost for both SoHo and Enterprise 802.11b WLAN implementations.

ParkerVision, headquartered in Jacksonville, Florida, designs, develops and manufactures communications technology platforms and products for the wireless and video industries. The video division is engaged in the design, development and marketing of automated live production systems for broadcasting and webcasting and automated video camera control systems.

Direct2Data Technologies, a division of ParkerVision, is a leader in direct conversion radio technology. Its patented D2D radio communications technology enables the development of advanced, highly integrated products for a wide range of wireless and wired radio-based devices. D2D's innovative RF technology simplifies wireless electronics, resulting in smaller, cost-effective, high-performance wireless communications products.

ParkerVision can be found on the World Wide Web at <http://www.parkervision.com/>.

Direct2Data Technologies can be found on the World Wide Web at <http://www.d2d.com/>.

For more information, call 888/690-7110.