Avago Technologies Develops Complete RF Front-End Solution for Point-to-Point Radio Markets

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38 GHz and 42 GHz SMT/WSD Chipset for Cellular Radio Infrastructure

SAN JOSE, Calif. & SINGAPORE, May 24, 2010 (BUSINESS WIRE) --Avago Technologies (Nasdaq: AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced early prototypes have been manufactured of Avago's proprietary five-chip family that targets the expanding 38 GHz and 42 GHz cellular radio infrastructure and backhaul point-to-point radio markets. Based on market demand and customer feedback, Avago designed the millimeter wave products for high performance in SMT (Surface Mount Technology) packages.

"Our 38 GHz and 42 GHz point-to-point radio solution has four primary chips and a wafer level packaged directional power detector," said Allen Chien, Multimarket Marketing Manager of Avago Technologies. "Our innovative chipset will help cellular operators increase their backhaul capacity to meet the demands of mobile data users."

Point-to-Point Wireless Markets

The wireless infrastructure market is expanding to meet the increasing data rate and reliable connection demands of cellular customers. Smart phones and other devices require high bandwidth data that must be provided by backhaul solutions. Point-to-point backbone radios carry the high capacity traffic from fiber Points-of-Presence (POPs) to wireless access points.

In areas of the world, 38 GHz (37-40GHz) and 42 GHz (40.5-43.5 GHz) are licensed wireless infrastructure bands. As new point-to-point radios are designed and installed to increase capacity, many radio manufactures are switching to SMT packages and away from traditional chip-and-wire devices. With SMT technology, radio suppliers can offer lower cost, more compact radios to the market and with shorter design cycles.

Process Technology and Manufacturing Capacity

The chipset is fabricated using Avago's proprietary 0.17 um gate Pseudomorphic High Electron Mobility Transistor (PHEMT) process. With 80 GHz F_T transistors, this process is more than capable of meeting 40 GHz applications needs. Manufactured in Avago's high yield, high volume, 6-inch wafer processing facility the chips are packaged in 5 x 5 mm SMT packages with shipment to be in tape and reel. The manufacturing and test operation is fully automated and capable of supplying millions of chipsets per month.

Key Features

- Four 5 x 5 mm SMT chips cover the 38 GHz and 42 GHz bands: Up-converter, down-converter, power amplifier, and multiplier
- High directivity power detector in 0402 Wafer Scale Package (WSP)
- Up-converter with variable gain amplifier (VGA) for 24 dB gain control
- 20 dB Power amplifier with 1 W output
    - High linearity with a 36 dBm OIP3 (third-order intercept)
- Integrated buffer and multiplier
- Low noise Receiver/Down-converter: Noise figure under 4.5 dB

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back 40 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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This announcement and supporting materials may contain forward-looking statements which address our expected future business and financial performance. These forward looking statements are based on current expectations, estimates, forecasts and projections of future Company or industry performance based on management's judgment, beliefs, current trends and market conditions, and involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. Accordingly, we caution you not to place undue reliance on these statements. Avago Technologies Limited's Quarterly Report on Form 10-Q, filed with the U.S. Securities and Exchange Commission ("SEC") and other filings with the SEC (which you may obtain for free at the SEC's website at http://www.sec.gov) discuss some of the important risk factors that may affect our business, results of operations, and financial condition.

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