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Skyworks Introduces Direct Conversion Mixer for Wireless Infrastructure

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WOBURN, Mass.--(BUSINESS WIRE)--Nov. 18, 2002--

New Single-Chip Mixer Cuts Size and Costs of Base Station

Receivers, Ideal for Existing System Upgrades and Next-Generation

Designs from 2 MHz to 3500 MHz

Skyworks Solutions, Inc. (Nasdaq:SWKS), the industry's leading wireless semiconductor company focused on radio frequency (RF) and complete cellular system solutions for mobile communications applications, today announced a single-chip direct conversion mixer that significantly reduces the number of components required for building a wireless base station receiver. The mixer is the first of its kind to deliver very high linearity along with the cost and space efficiencies of direct conversion technology for CDMA, WCDMA, GSM, TDMA, 2.5G and 3G base stations.

The use of direct conversion technology has become increasingly popular among wireless handset manufacturers as a strategy for reducing product size and cost, and now offers the same opportunities in base station applications. Direct conversion replaces all intermediate frequency (IF) signal conversion stages that are required with earlier superheterodyne techniques, along with the costly discrete components associated with the extra signal-conversion steps. Skyworks is an early pioneer in direct conversion technology, and offers a handset transceiver that has been shipping since mid-2001. This new, high-performance, silicon bipolar complementary metal-oxide semiconductor (BiCMOS), zero-IF mixer design utilizes new technology that significantly reduces transceiver size, complexity and cost while supporting the stringent performance requirements of wireless infrastructure applications.

"The majority of wireless infrastructure equipment manufacturers are under pressure to reduce base station transceiver cost and size, without compromising performance," said Mohy Abdelgany, vice president of RF Subsystems at Skyworks. "Skyworks has leveraged its expertise in direct conversion technology to create a small-footprint, high-performance mixer solution that, depending on base station architecture, can eliminate one or more down-conversion stages including image-reject filters and other associated components."

"Our SKY73001 mixer further expands our wireless infrastructure family of linear power amplifier modules, receiver front-ends/down-converters, and dual fractional N frequency synthesizers," Abdelgany added. "It also provides a key building block for extending the capabilities of our front-end solutions so they can support direct conversion technology with the superior linearity required for next-generation base station designs."

Unlike alternative solutions that use multiple stages of mixers, image-reject filters and associated components to perform the RF-to-IF mixing function, Skyworks' SKY73001 device is a single-chip mixer designed specifically to support industry-standard IS95 linearity specifications for base station receivers. For example, at an RF frequency of 1900 MHz, this device provides a Second-Order Input Intercept Point (IIP2) of +70dBm and a Third-Order IIP (IIP3) of +25dBm, at a low, -6dBm local oscillator (LO) input level that eliminates the need for an external LO buffer amplifier.

The SKY73001 also offers a wide RF and LO frequency range of 2 MHz to 3500 MHz, within an IF range of 0 MHz to 100 MHz. This wide frequency range enables designers to use a single device in multiple board designs that support different frequency bands and applications.

Designed to interface directly with analog-to-digital converters, the SKY73001 includes differential, I&Q and IF outputs and operates from a single +3.0V power supply. It features excellent LO-to-RF and LO-to-IF isolation, and is manufactured using a proven, high-reliability silicon BiCMOS process.

Pricing and Availability

The SKY73001 direct conversion mixer is available for sampling and in production quantities. It is packaged in a 32-pin, 5.0 x 5.0 x 1.2 mm RF leadless grid array (RFLGA), and priced at \$6.98 each in OEM volumes of 10,000 units.

Note to Editors: Photos and technical documentation available upon request.

About Skyworks

Skyworks Solutions, Inc. is the industry's leading wireless semiconductor company focused on RF and complete cellular system solutions for mobile communications applications. The company began operations in June 2002, following the completion of the merger between Alpha Industries, Inc. and Conexant Systems, Inc.'s wireless communications business. Skyworks is focused on providing front-end modules, RF subsystems and cellular systems to wireless handset and infrastructure customers worldwide.

Skyworks is headquartered in Woburn, Mass. and has executive offices in Newport Beach, Calif. The company has design, engineering, manufacturing, marketing, sales and service facilities throughout North America, Europe, Japan and Asia Pacific. For more information please visit www.skyworksinc.com.

Safe Harbor Statement

This news release includes "forward-looking statements" intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. These forward-looking statements include information relating to future results of Skyworks (including certain projections and business trends). All such statements are subject to certain risks and uncertainties that could cause actual results to differ materially from those projected, and may affect our future operating results, financial position and cash flows.

These risks and uncertainties include, but are not limited to: maintaining a consistent and reliable source of energy; global economic and market conditions, such as the cyclical nature of the semiconductor industry and the markets addressed by the company's and its customers' products; demand for and market acceptance of new and existing products; the ability to develop, manufacture and market innovative products in a rapidly changing technological environment; the ability to compete with products and prices in an intensely competitive industry; product obsolescence; losses or curtailments of purchases from key customers or the timing of customer inventory adjustments; the timing of new product introductions; the availability and extent of utilization of raw materials, critical manufacturing equipment and manufacturing capacity; pricing pressures and other competitive factors; changes in product mix; fluctuations in manufacturing yields; the ability to continue to grow and maintain an intellectual property portfolio and obtain needed licenses from third parties; the ability to attract and retain qualified personnel; labor relations of the company, its customers and suppliers; economic, social and political conditions in the countries in which Skyworks, its customers or its suppliers operate, including security risks, possible disruptions in transportation networks and fluctuations in foreign currency exchange rates; and the uncertainties of litigation, as well as other risks and uncertainties, including but not limited to those detailed from time to time in the company's Securities and Exchange Commission filings.

These forward-looking statements are made only as of the date hereof, and the company undertakes no obligation to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

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