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## Skyworks Unveils Complete Radio Subsystem for EDGE Mobile Platforms

### Patent-pending Polar Modulation Technology Reduces Complexity, Size, Cost and Power Requirements for Next-Generation Handsets

WOBURN, Mass.--(BUSINESS WIRE)--July 21, 2003--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 introduced a complete RF subsystem for E-GPRS (GSM/GPRS/EDGE) mobile handsets. Skyworks' RF chipset solution includes the company's leadership single-chip direct conversion transceiver, power amplifier (PA) module and a PA controller/modulator.

Skyworks' new subsystem utilizes the company's patent-pending Polar Loop™ transmit modulation technology which eliminates expensive components such as SAW filters, in order to save handset designers significant space, cost and design-cycle time with improved performance. This approach has the potential for improving PA efficiency in EDGE mode by up to 10 percent when compared to conventional architectures, resulting in improved talk times.

EDGE, or Enhanced Data Rates for GSM Evolution, is a wireless communications technology that allows consumers to use cellular handsets, PC cards, PDAs and other wireless devices to connect to the Internet at data rates up to four times faster than existing GSM and GPRS wireless devices.

"Skyworks continues to extend its leadership in RF subsystems and PAs, with a three-chip solution that enables customers to quickly enter the rapidly emerging market for EDGE-based wireless data services," said Mohy Abdelgany, vice president of RF Systems for Skyworks. "Our innovative Polar Loop modulation technique provides significant improvements in BOM reductions and power efficiency and will give designers a powerful solution for developing next-generation E-GPRS handsets."

#### Technical Details

Skyworks' complete radio subsystem includes all the necessary RF components for building state-of-the-art quad-band (850/900/1800/1900) handsets. At the heart of the solution is the company's advanced Polar Loop transmit modulation architecture. This unique approach enables the radio to transmit both constant as well as non-constant envelope signals through the same transmit path to minimize the number of external components required to build a mobile handset. In addition, the architecture significantly reduces the complexity, size, cost and power requirements of next-generation EDGE platforms.

Skyworks' Polar Loop technology leverages saturation-mode PA technology, the industry's dominant approach for GSM terminals, to maximize power added efficiency (PAE) in EDGE modulation (8-Phase Shift Keying). This is done in an extremely robust closed-loop system. The three-chip solution enables the system to perform well under extreme Voltage Standing Wave Ratio (VSWR) conditions up to a 6:1 ratio, while not requiring the use of an external isolator. This further reduces the cost and size of the system.

The highly integrated subsystem includes:

- [SKY74045](#) Direct Conversion Transceiver

The [SKY74045](#) is based on Skyworks' full type-approved (FTA) single-chip direct conversion transceiver technology, which is included in more than 50 mobile platforms. The RF transceiver consists of a direct conversion receiver, a transmitter with integrated voltage controller oscillators (VCO) that utilizes Skyworks' Polar Loop modulation technology, and a fully integrated Fractional-N synthesizer.

Skyworks' advanced direct conversion architecture technology eliminates the need for special baseband processing requirements to provide customers with the flexibility to combine the subsystem with virtually any E-GPRS baseband solution currently available on the market.

The quad-band [SKY74045](#) RF transceiver, when combined with the [SKY74046](#) PA controller/modulator, seamlessly forms a closed loop transmit system around the [SKY77316](#) PA.

The [SKY74045](#) is fabricated using BiCMOS technology and is available in a 56-pin 8mm x 8mm land grid array (LGA) package.

-- [SKY74046](#) PA Controller/Modulator

The PA controller is a highly integrated device used for power control and when combined with the [SKY74045](#) transceiver enables transmit of both constant as well as non-constant envelope signals. The device requires a minimal number of external components to complete an automatic output control loop. The [SKY74046](#) is fabricated using BiCMOS technology and is available in a 24-pin 4mm x 4mm land grid array (LGA) package.

-- [SKY77316](#) PA Module

PA functionality is provided by a proven Skyworks module that incorporates a GSM850/900 PA block, a DCS1800/PCS1900 PA block, impedance-matching circuitry for 50 ohm input and output and a PA bias control block. The two separate HBT PA blocks are fabricated on a single gallium arsenide (GaAs) die to provide maximum performance in a small footprint. The [SKY77316](#) is available in a 16-pin 8mm x 10mm multi-chip module (MCM).

#### Pricing and Availability

Skyworks' complete EDGE RF subsystem solution is sampling now with volume production scheduled to take place in the fourth calendar quarter of 2003. The module is priced at \$8.50 in quantities of 10,000.

#### 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 is focused on providing front-end modules, RF subsystems and cellular systems to handset, WLAN and infrastructure customers.

Skyworks is headquartered in Woburn, Mass., with executive offices in Irvine, 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](http://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). Forward-looking statements can often be identified by words such as "anticipates," "expects," "intends," "believes," "plans," "may," "will," "continue," similar expressions, and variations or negatives of these words. All such statements are subject to certain risks and uncertainties that could cause actual results to differ materially and adversely 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: 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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Note: A photo is available at URL:

<http://www.businesswire.com/cgi-bin/photo.cgi?pw.072103/bb4>

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