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For Immediate Release

Cypress RoboClock® II Programmable Skew Clock Buffer Available In fBGA

*11mm x 11mm Package Is Less Than Half the Size of TQFP Counterpart;
Space Saving Critical to High-speed Networking Applications*

SAN JOSE, Calif., July 5, 2000 – Cypress Semiconductor (NYSE: CY) today announced that its RoboClock® II programmable skew clock buffer is now available in a 100-pin, fine-pitch BGA (fBGA) package that occupies less than half the board space of its TQFP version. The fBGA package measures 11mm x 11mm and features a ball pitch of 1.0mm. Combined with the programmability that characterizes the RoboClock family of devices, the fBGA package allows designers of networking, telecommunications and mass storage applications to solve difficult board layout issues quickly, lowering product development costs and speeding time-to-market.

“As networking boards migrate to higher speeds, space is becoming an increasingly precious commodity,” said Mike Bollesen, senior product marketing manager for communications products. “By placing the RoboClock II in an fBGA package, we free up board space that can be used for other components or reduce the size of the board.”

The RoboClock II family expands the original RoboClock family’s capabilities – programmable skew, zero propagation delay, 50-50 duty cycle, and spread-spectrum signal distribution. The RoboClock II devices offer users multiply and divide functions of 1 through 6, 8, 10, and 12, rather than the original 1, 2 and 4. The second generation of RoboClock devices also provide a total of 18 outputs, compared to the original RoboClock’s eight outputs. The RoboClock II device in the fBGA package, the CY7B994V-5BBC, runs at speeds up to 185 MHz.

The RoboClock II family offers new features never before found in a programmable skew clock buffer. User-selectable redundant reference clocks provide fault tolerance. Each reference clock input accommodates differential PECL, differential LVTTTL, or single-ended LVTTTL signals. The “hot-swap” capability of the reference clock inputs allows users to plug in a new board without powering down their systems.

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The RoboClock II devices are the first products of Cypress's new 3.3-volt, double-layer-metal, 0.25-micron BiCMOS process. Cypress tests and guarantees all key skew specifications of RoboClock devices – including pin-to-pin skew, propagation delay, and rise and fall time – to ensure reliability.

Price and Availability

Samples of the CY7B994V-5BBC are available now, with production volumes expected in the third quarter of this year. The devices will be priced at \$28 for 10,000-piece quantities.

About Cypress

Cypress Semiconductor provides high-performance integrated circuit solutions “By Engineers. For Engineers.”TM for fast-growing companies in fast-growing markets, including data communications, telecommunications, computation, consumer products, and industrial-control. With a focus on emerging communications applications, Cypress's product lines include networking-optimized and micropower static RAMs; high-bandwidth multiport and FIFO memories; high-density programmable logic devices; timing technology for PCs and other digital systems; and controllers for Universal Serial Bus (USB). Cypress is No. 1 in the USB and clock chip markets.

More than two-thirds of Cypress's sales come from fast-growing datacom/telecom markets and dynamic companies such as Alcatel, Cisco, Ericsson, Lucent, Motorola, Nortel Networks, and 3Com. Cypress's ability to mix and match its broad portfolio of intellectual property enables targeted, integrated solutions for high-speed systems that feed bandwidth-hungry Internet applications. Cypress aims to become the preferred silicon supplier for Internet switching systems and for every Internet data stream to pass through at least one Cypress IC.

Cypress employs more than 3,900 people worldwide with international headquarters in San Jose, California. Its shares are listed on the New York Stock Exchange under the symbol CY. More information about Cypress is accessible electronically on the company's worldwide web site at <http://www.cypress.com> or by CD-ROM (call 1-800-858-1810). An electronic investor forum, and other investor information, is located at <http://www.cypress.com/investor/index.html>.

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