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For Immediate Release

Cypress Introduces Programmable InfiniBand™ PHY

InfiniPHY IP Core Enables Data Transfer Through 2.5 Gbps Serial Links For High-Bandwidth, Customized, Fabric-based Switching Networks

SAN JOSE, Calif., June 18, 2001 – Cypress Semiconductor (NYSE: CY) today brought its Programmable Serial Interface (PSI™) family of programmable PHY devices into the InfiniBand™ marketplace with the introduction of an InfiniBand intellectual property (IP) core. The IP core can be implemented in the company's CYP25G01K100 PSI device, the world's only 2.5 Gbps programmable PHY and one of the recently-delivered devices in Cypress's family of programmable PHYs.

The InfiniPHY IP core is a point-to-point, integrated communications solution that enables the transfer of data over high-speed serial links – optical fiber, PCB traces and copper transmission lines – at up to 2.5 Gbps. When implemented in the programmable PHY, the core leaves approximately 50,000 gates for custom logic.

“This IP core ensures interoperability by supporting InfiniBand-compliant byte alignment and recognizing link-training sequences,” said Richard Kapusta, senior product marketing manager at Cypress. “This highly-integrated solution results in significant savings in board real estate and power consumption.”

The InfiniBand IP core features comma detect, 8B/10B encoder/decoder, 16-bit parallel-to-serial conversion in the transmit path, serial-to-16-bit-parallel conversion in the receive path and clock-tolerance compensation logic.

“Cypress is ahead of other programmable logic vendors in providing a programmable InfiniBand solution”, said Geoff Charubin, director of data communications marketing at Cypress. “In the near future we will provide both 4- and 12-channel InfiniBand solutions. Other companies will have to find partners or make acquisitions to provide the flexibility, customization and integration that Cypress can deliver today.”

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A PSI device with the InfiniPHY IP core will provide complete parallel-to-serial and serial-to-parallel conversion in a single chip. The PSI programmable PHY already integrates a 2.5 Gbps transmit clock-generation PLL, a clock- and data-recovery PLL, and a serializer/deserializer (SERDES). An HSTL I/O parallel bus interface and superior jitter performance ensure robust system operation. Users can implement additional features in the devices by using the remaining 50,000 logic gates and the 240 Kbytes of built-in memory.

Availability

The InfiniPHY IP core will be available in July under NDA. Deliverables for the core will include the datasheet, testbenches, documentation, control files and application notes. The netlist can be downloaded at no cost from the Cypress Web site. For more information, visit

<http://www.cypress.com/infiniband/index.html>.

About Cypress

Cypress Semiconductor is “Driving the Communications Revolution”™ by providing high-performance integrated circuit solutions to fast-growing markets, including data communications, telecommunications, computation, consumer products, and industrial control. With a focus on emerging communications applications, Cypress's product portfolios include high-speed data communications ICs; networking-optimized and micropower static RAMs; high-bandwidth multi-port and FIFO memories; high-density programmable logic devices; timing technology solutions; and controllers for Universal Serial Bus (USB).

More than two-thirds of Cypress's sales come from fast-growing communications 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 4,700 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>.

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