

Synopsys DesignWare USB 2.0 NanoPHY and PCI Express PHY IP Achieve Compliance in SMIC's 130-NM Process Technology

Silicon-Proven, Mixed-Signal IP Enables Easy Integration into SoCs

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MOUNTAIN VIEW, Calif., Sept. 20 /PRNewswire-FirstCall/ -- Synopsys, Inc. (NASDAQ: SNPS), a world leader in semiconductor design software, today announced that its DesignWare® USB 2.0 nanoPHY IP achieved USB logo certification and its PCI Express (PCIe) PHY IP passed compliance testing when implemented in SMIC's popular 130-nm G process technology. As the leading technology provider of complete IP solutions for PCI Express and USB 2.0, Synopsys continues to provide designers with high-quality IP that can be integrated with low risk and speed time to market with increased interoperability and standards compliance.

Optimized for high-volume, power-sensitive applications, the DesignWare USB 2.0 nanoPHY IP provides the best combination of small area and low power. The PHY's unique tunability enables high yield and robust interoperability by allowing designers to quickly adjust for process variation and system parasitics. The DesignWare USB 2.0 nanoPHY is part of a comprehensive solution for USB protocol implementation including OTG digital controllers, host controllers, and verification IP. The silicon-proven DesignWare USB OTG solutions are currently shipping in volume in leading consumer, computing and wireless products.

Compliant with PCI Express 1.1, the DesignWare PHY IP for PCI Express offers the lowest power consumption (up to 50 percent lower than that of competitive solutions), as well as significant performance margin on the receiver and small die area. Its advanced built-in diagnostics engine and ATE test vectors enable at-speed production testing of the PHYs. Additionally, the DesignWare PHY IP for PCI Express offer a number of dedicated lane configurations from x1 to x8 that support both wire-bond and flip-chip packages. The DesignWare PHY IP for PCI Express is part of a comprehensive silicon-proven PCIe solution which includes endpoint, dual mode, root complex and switch IP as well as verification IP.

"Synopsys provides our customers with industry-leading USB and PCIe IP that offers a wide range of advanced features combined with excellent technical support," said Paul OuYang, SMIC marketing and sales. "Combining Synopsys' certified, silicon-proven IP with our manufacturing process technology enables designers to achieve their time-to-market goals, while providing a fast, low-risk path to volume production."

"Working with SMIC to silicon-validate and certify our PCIe and USB IP in their 130-nm G process technology shows our ongoing support to provide customers with industry-leading standards-based connectivity IP," said John Koeter, senior director of marketing for IP and Services at Synopsys. "We understand the critical need to provide designers with high-quality, certified IP solutions that continually evolve with advanced process technologies."

Availability

The DesignWare USB 2.0 PHY IP, USB 2.0 nanoPHY IP and the PCI Express PHY IP for the SMIC's 130-nm process are available now.

About DesignWare Cores

Synopsys DesignWare Cores provide designers with silicon-proven, digital, and mixed-signal connectivity IP which is use in some of the world's most recognized products, including communications processors, routers, switches, game consoles, digital cameras, computers and computer peripherals. Provided as synthesizable RTL source code or in GDS format, these cores enable designers to create innovative, cost-effective system-on-chips and embedded systems. Synopsys provides flexible licensing options for the DesignWare Cores. Each core can be licensed individually or users can opt to license all the cores as part of one simple agreement. For more information on DesignWare IP, visit: <http://www.designware.com/>.

About Synopsys

Synopsys, Inc. (NASDAQ: SNPS) is a world leader in electronic design automation (EDA) software for semiconductor design. The company delivers technology-leading system and semiconductor design and verification platforms, IC manufacturing and yield optimization solutions, semiconductor intellectual property and design services to the global electronics market. These solutions enable the development and production of complex integrated circuits and electronic systems. Through its comprehensive solutions, Synopsys addresses the key challenges designers and manufacturers face today, including power management, accelerated time to yield and system-to-silicon verification. Synopsys is headquartered in Mountain View, California, and has more than 60 offices located throughout North America, Europe, Japan and Asia. Visit Synopsys online at <http://www.synopsys.com/>.

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Editorial Contacts:

Yvette Huygen
Synopsys, Inc.
650-584-4547
yvetteh@synopsys.com

Ellen Van Etten
MCA
970-778-6094
evanetten@mcapr.com

SOURCE: Synopsys, Inc.

CONTACT: Yvette Huygen of Synopsys, Inc., +1-650-584-4547, yvetteh@synopsys.com; or Ellen Van Etten of MCA, +1-970-778-6094, evanetten@mcapr.com, for Synopsys, Inc.

Web site: <http://www.synopsys.com/>
<http://www.designware.com/>
