Dongbu HiTek Provides Process Design Kits for Synopsys' Custom Compiler Solution

New iPDKs Streamline Development of Analog/Power and Mixed-signal Designs for High-growth Markets

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Highlights:

- Dongbu provides iPDK support for Synopsys' Custom Compiler™ solution
- iPDKs available now for 0.11-micron mixed-signal and 0.18-micron BCDMOS process
- Targets high-growth handheld electronics, automotive and industrial systems markets

Dongbu HiTek and Synopsys, Inc. (Nasdaq: SNPS) today announced the availability of interoperable Process Design Kits (iPDKs) that enable Dongbu HiTek foundry customers using Synopsys' Custom Compiler™ solution to rapidly design specialized analog/power and mixed-signal chips that target high-growth markets. The new iPDKs initially support Dongbu HiTek's mixed-signal process nodes at 0.11-micron as well as BCDMOS technology at 0.18-micron node operating at 1.8V/5V and up to 30V with LDMOS. The combination of the iPDKs and Custom Compiler's ability to shorten analog layout tasks from days to hours will enable mutual customers to rapidly design specialized analog/power and mixed-signal chips that target high-growth markets.

"Our mixed-signal foundry processes support a host of applications ranging from home and handheld electronics to automotive and industrial systems," noted G.T. Kwon, vice president of technology enabling at Dongbu HiTek. "By providing foundry-validated iPDKs for Synopsys' Custom Compiler solution, we aim to make it easy for users to fully leverage the high performance and flexibility of our specialized foundry processes."

Kwon confirmed that the two new iPDKs co-developed with Synopsys are available now. "The two new iPDKs support our 0.11-micron mixed-signal process, which is ideal for implementing audio codecs and DACs, and our 0.18-micron BCDMOS, which is best for designing PMICs, data converters, wireless chargers and LED drivers. The applications for such analog-intensive chips include smartphones, tablets, laptops and televisions."

The Korean foundry reports that it intends continue to collaborate with Synopsys to develop additional iPDKs. Expected to be introduced later this year, forthcoming iPDKs will support 90-nanometer (nm) mixed-signal designs as well as 0.18-micron BCDMOS designs that deploy LDMOS to operate up to 45V/60V.

"These new iPDKs enable Dongbu HiTek customers to use Custom Compiler's pioneering visually-assisted layout automation, which can shorten layout tasks from days to hours," said Bijan Kiani, vice president of marketing for the Design Group at Synopsys. "Having Dongbu HiTek as an iPDK partner broadens our ability to reach a diverse set of market segments."

About Dongbu HiTek

Dongbu HiTek Co., Ltd. specializes in developing superb analog and power processing technologies. The company adds high value to advanced ICs with a processing portfolio that encompasses Analog CMOS, BCDMOS, High Voltage CMOS, CMOS Image Sensor (CIS), and Embedded Flash technologies. With its best-in-class BCDMOS technology, the company manufactures power management chips that serve numerous applications ranging from home and handheld electronics to automotive and industrial systems. Currently processing technologies at nodes ranging from 0.35 micron to 90 nanometers, the company complements its world-class foundry capabilities with top-quality design support, prototype verification and packaging/module development. Dongbu HiTek publicly trades its stock under 000990 on the Korea Stock Exchange. For more information, visit www.dongbuhitek.com.

About Synopsys

Synopsys, Inc. (Nasdaq: SNPS) is the Silicon to Software™ partner for innovative companies developing the electronic products and software applications we rely on every day. As the world's 16th largest software company, Synopsys has a long history of being a global leader in electronic design automation (EDA) and semiconductor IP and is also growing its leadership in software quality and security solutions. Whether you're a system-on-chip (SoC) designer creating advanced semiconductors, or a software developer writing applications that require the highest quality and security, Synopsys has the solutions needed to deliver innovative, high-quality, secure products. Learn more at www.synopsys.com.

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