Synopsys Extends HAPS Prototyping Family with New Desktop Prototyping Solution

HAPS-80D Delivers Out-of-the-Box Design Interaction for High-performance Prototyping

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Highlights:

- Extends HAPS-80 leading performance to an easily accessible desktop form factor
- Built-in infrastructure for software debug and design interaction
- Fast prototype bring-up with automated prototyping flow
- Broad daughterboard ecosystem for software development and system validation in context of real-world I/O

Synopsys, Inc. (Nasdaq: SNPS), today announced the availability of its HAPS®-80 Desktop (HAPS-80D) system for mid-range system-on-chip (SoC) prototyping. The Synopsys HAPS-80D system builds on the HAPS-80 prototyping family, with more than 1,500 systems deployed. HAPS-80D delivers out-of-the-box high-performance prototyping with built-in interfaces for immediate design interaction to accelerate software development and system validation.

"Maxio Technology develops industry-leading SSD controllers for consumer and enterprise applications," saidGuoyang Li, vice president at Maxio Technology. "Synopsys HAPS delivers a high-performance integrated prototyping solution, enabling our design teams to accelerate software development and perform real-world interface testing at their desktop."

Designed for mid-range SoC prototyping, HAPS-80D accelerates prototype bring-up and interaction with real-world I/O through special built-in infrastructure to support GPIO, UARTs and a wide variety of SoC peripherals. HAPS-80D's I/O flexibility enables optimization of connections to support multi-FPGA design requirements. HAPS-80D also provides built-in debug infrastructure for HAPS GSV (Global State Visibility) with support for Synopsys' Verdi® SoC debug platform, as well as direct connection to a software debugger through Arm® CoreSight, JTAG20 or MICTOR 38 interfaces.

HAPS-80D delivers the industry's highest inter-FPGA communication performance with its high-speed time-domain multiplexing (HSTDM) technology to support system routes and transfer of design signals at 1.4Gbps single-ended. With its automated partitioning and prototyping flow, HAPS-80D easily scales to increasing design capacity and complexity. HAPS-80D is part of the Synopsys Verification Continuum platform with easy migration between Synopsys VCS® simulation, ZeBu® emulation, and HAPS prototyping solutions, saving months of design and verification time, and addressing time-to-market challenges.

"Industry leaders like Maxio Technology increasingly require an integrated prototyping solution to validate the I/O connectivity and performance requirements of their SoCs," said Benoit Lemonnier, vice president of engineering in the Verification Group at Synopsys. "HAPS-80D is a high-performance desktop prototyping solution focused on accelerating software development and system validation that helps software developers and system engineers increase productivity and get to market faster."

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 15th 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 security and quality solutions. Whether you're a system-on-chip (SoC) designer creating advanced semiconductors, or a software developer writing applications that require the highest security and quality, Synopsys has the solutions needed to deliver innovative, high-quality, secure products. Learn more at www.synopsys.com.

Editorial Contact:
James Watts
Synopsys, Inc.
650-584-1625
jwatts@synopsys.com

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