Synopsys Extends Automotive Ecosystem for Virtual Prototyping to Include Silicon Mobility Semiconductor Solutions

Virtualizer Development Kit for Silicon Mobility OLEA Solutions Enables Early Software Development and Quality Improvement for Automotive Tier 1 and OEMs

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Highlights:

- New automotive Virtualizer Development Kit for OLEA T222 from Synopsys and Silicon Mobility enables early software development, integration and test
- Silicon Mobility OLEA is the industry's first automotive control unit with field-programmable logic
- Synopsys Virtualizer Development Kits offer the broadest automotive virtual prototyping support for increased productivity, higher reliability, and reduced development cost

Synopsys, Inc. (Nasdaq: SNPS) and Silicon Mobility today announced availability of Synopsys Virtualizer™ Development Kit (VDK) for the Silicon Mobility OLEA® Solution. Silicon Mobility OLEA solution is the industry's first automotive semiconductor solution with programmable logic designed for powertrain hybridization and electric vehicle control systems. The new VDK for OLEA T222, available as part of Silicon Mobility OLEA COMPOSER, enables early software development, integration and test for increased productivity, higher reliability and reduced cost for the development of automotive electric motor control, powertrain, transmission and chassis systems.

"OLEA T222 customers developing hybrid powertrains and electric vehicle controls need to accelerate software development, integration and test given the increased software content in these systems," said Bruno Paucard, CEO of Silicon Mobility. "Our joint VDK solution with Synopsys, the leader in virtual prototyping, nicely complements OLEA COMPOSER, enabling our customers to quickly and efficiently deploy a virtual Hardware-in-the-Loop environment to start their development earlier and accelerate integration and test, resulting in higher quality."

OLEA T222 is a unique solution combining the hardware flexibility of AMEC® FLU embedded programmable logic with software flexibility of the ARM® Cortex®-R5F CPU into a single automotive-qualified semiconductor. The new Synopsys VDK solution is available as part of OLEA COMPOSER, the newly announced development and calibration framework taking full advantage of OLEA technologies.

Synopsys VDKs include software development tools and integrate third-party tools to support automotive flows for software development, virtual Hardware-in-the-Loop based integration, and fault and coverage testing in support of ISO 26262. This complete virtual development environment can easily be deployed in a regression environment, resulting in higher software quality, better product reliability and reduced development costs.

"With OLEA, Silicon Mobility is bringing a new and innovative solution to the automotive market," said Eshel Haritan, vice president, virtual prototyping R&D in the Synopsys Verification Group. "Synopsys' collaboration with Silicon Mobility to provide a Virtualizer Development Kit for OLEA T222 enables our mutual customers to accelerate their development and face electro-mobility design challenges by delivering better quality automotive software, faster."

Availability

- The jointly created VDK for OLEA T222 solution is available immediately from Silicon Mobility and Synopsys

Synopsys Automotive: Enabling Safe, Secure, Smarter Cars – from Silicon to Software

Customers across the automotive supply chain use Synopsys' Silicon to Software™ solutions to develop ICs and software for infotainment, ADAS, V2X and autonomous driving applications. Synopsys' portfolio of automotive-specific IC design and verification tools, automotive-grade IP and automotive software cybersecurity and quality solutions accelerate time to market and enable the next generation of safe, secure and smarter connected cars. Learn more at http://www.synopsys.com/automotive/.

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.

About Silicon Mobility

Silicon Mobility is a technology leader for cleaner, safer and smarter mobility. The company designs, develops and sells flexible, real-time, safe and open semiconductor solutions for the automotive industry used to increase energy efficiency and reduce pollutant emissions while keeping passengers safe. Silicon Mobility's products control electric motors, battery and energy management systems of hybrid and electric vehicles. By using Silicon Mobility's technologies, manufacturers improve the efficiency, reduce the size, weight and cost of electric motors and increase the battery range and durability. Silicon Mobility technologies and products accelerate the car's powertrain electrification and the deployment of driverless vehicles for OEMs. Silicon Mobility is headquartered in Sophia-Antipolis, France.

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