

## Silicon Mobility OEMs Mentor Graphics Precision Synthesis Technology to Streamline OLEA Tool Flow for Automotive Applications

**Sophia Antipolis – France, November 22<sup>nd</sup> 2016:** Silicon Mobility, the technology leader developing semiconductor solutions for cleaner, safer and smarter mobility, announced today that the company has signed an agreement with Mentor Graphics® for supporting Silicon Mobility's OLEA® solution by integrating the Mentor Graphics Precision® Synthesis tool into OLEA's standard development flow. Mentor Graphics Precision Synthesis tool for FPGAs provides advanced optimizations, award-winning analysis, and industry-leading language support to accelerate time to market, eliminate design defects, and deliver superior quality of results.

OLEA is the first ever automotive-qualified microcontroller family with embedded, robust, and secured programmable logic (AMEC®). This addresses the need of flexibility, real-time data processing, and safety for powertrain electrification and ADAS applications. OLEA provides numerous breakthrough technologies compared to traditional semiconductor vendors, including a completely standardized, worldwide adopted and fully supported programming flow for its AMEC FLU patented technology.

As part of Silicon Mobility's effort to establish the automotive micro-controller eco-system, Mentor Graphics will adapt its market-leading Precision Synthesis tool to optimize Silicon Mobility's programmable logic for designers and system engineers. The AMEC FLU, a programmable logic area combining Look-Up-Tables, Flip-Flops and Signal Processor Unit hard macros, will benefit from Mentor Graphics expertise in FPGA design.

Mentor Graphics and Silicon Mobility are collaborating on the Precision Synthesis product, providing features for critical applications development: timing-driven synthesis and mapping, incremental synthesis, encryption support, and safety-critical support. The tool will be available to selected customers during the first quarter of 2017.

"Mentor Graphics is the worldwide leader in EDA-FPGA tooling with global presence all across our ecosystem", says Bruno Paucard, CEO of Silicon Mobility. "Offering access to Mentor's Precision Synthesis for OLEA guarantees our customer best-in-class features, long-term support and insures the highest level of quality."

"Silicon Mobility's OLEA microcontrollers and programmable logic are critical for today's automotive systems and we are proud to have our Precision Synthesis tool integrated with this leading technology," stated A.J. Incorvaia, vice president and general manager of Mentor Graphics Board Systems Division. "Our integrated solution will allow Silicon Mobility customers to develop advanced, safety-critical automotive systems with greater reliability and enhanced productivity."

### **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.

Silicon Mobility is headquartered in Sophia-Antipolis, France.

For more information, visit: [www.silicon-mobility.com](http://www.silicon-mobility.com)

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**About Mentor Graphics**

Mentor Graphics Corporation is a world leader in electronic hardware and software design solutions, providing products, consulting services, and award-winning support for the world's most successful electronic, semiconductor and systems companies. Established in 1981, the company reported revenues in the last fiscal year in excess of \$1.18 billion. Corporate headquarters are located at 8005 S.W. Boeckman Road, Wilsonville, Oregon 97070-7777. World Wide Web site: <http://www.mentor.com/>

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