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Intel Drives 'AI Everywhere' into Automotive Market at CES

Intel announces agreement to acquire Silicon Mobility SAS for advanced EV energy management and new AI-enhanced family of software-defined vehicle SoCs.

NEWS HIGHLIGHTS

- Acquisition of Silicon Mobility SAS to bring AI efficiencies to electric vehicle (EV) energy management, subject to necessary approvals.
- New Intel AI-enhanced software-defined vehicle (SDV) SoCs will enable in-vehicle AI such as GenAI and camera-based driver/passenger monitoring.
- Zeekr to use Intel's new SDV SoC to bring enhanced GenAI living room experiences to next-generation vehicles.
- Intel to chair new SAE automotive vehicle power management standard workgroup.
- Intel to deliver the industry's first open automotive chiplet platform enabling customers to integrate their own chiplet into an Intel Automotive product.

LAS VEGAS--(BUSINESS WIRE)-- Today at CES, Intel announced plans to drive the company's [AI everywhere](#) strategy into the automotive market, including a deal to acquire Silicon Mobility, a fabless silicon and software company that specializes in SoCs for intelligent electric vehicle (EV) energy management. Intel also announced: a new family of AI-enhanced [software-defined vehicle](#) system-on-chips (SoCs), with Zeekr as the first original equipment manufacturer (OEM) to adopt the new SoC to deliver its generative AI-driven living room experiences to next-generation vehicles.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20240109235184/en/>



"Intel is taking a 'whole vehicle' approach to solving the industry's biggest challenges. Driving innovative AI solutions across the vehicle platform will help the industry navigate the transformation to EVs," said Jack Weast, vice president and general manager of Intel Automotive.

The family of Intel AI-enhanced software-defined vehicle system-on-chips features artificial intelligence acceleration capabilities from Intel's AI PC roadmap to enable the most desirable in-vehicle AI use cases, such as driver and passenger monitoring. Intel Automotive introduced the SoC during a presentation on Tuesday, Jan. 9, 2024, at CES in Las Vegas. (Credit: Intel Corporation)

“The acquisition of Silicon Mobility aligns with our sustainability goals while addressing a critical energy management

need for the industry.”

More: [Intel at CES 2024](#) (Press Kit) | [Intel Automotive at CES 2024](#) (Quote Sheet) | [Software-Defined Vehicle Transformation Starts with Intel](#) (Fact Sheet)

The EV transition alongside customer demand for in-vehicle experiences fuels Intel's strategy to enable the SDV. Intel also announced a commitment to deliver the industry's first open UCle-based chiplet platform for SDVs. Intel will work with imec to ensure the packaging technologies meet the rigorous quality and reliability requirements of the automotive industry. Intel will also chair a new industry-defining international standard for EV power management.

Today, Intel SoCs are in more than 50 million vehicles, powering infotainment, displays, digital instrument clusters and more. Tomorrow, Intel's expanded AI-enhanced “whole vehicle” roadmap will move the industry toward a more scalable, software-defined and sustainable future.

Intel to Acquire Silicon Mobility to Unlock a More Sustainable Electrified Future

Silicon Mobility SAS, a portfolio company of [Cipio Partners](#) and [Capital-E](#), is a fabless automotive silicon and software company that designs, develops and deploys EV energy management SoCs. Silicon Mobility's SoCs feature industry-leading accelerators purpose-built for energy delivery and co-designed with highly advanced software algorithms for significant gains in vehicle energy efficiency.

Silicon Mobility's technology portfolio will extend Intel's reach in the vehicle beyond high-performance compute into intelligent and programmable power devices. The acquisition is subject to necessary approvals.

Intel's Open Platforms to Bring AI PC Experience to the Car

The new family of AI-enhanced SDV SoCs address a critical industry need for power and performance scalability. The family of SoCs feature AI acceleration capabilities from Intel's AI PC roadmap to enable the most desirable in-vehicle AI use cases, such as driver and passenger monitoring.

A demo showed 12 advanced workloads – including generative AI, e-mirrors, high-definition video conference calling and PC games – running concurrently across multiple operating systems, including mixed critical use cases. The demo shows how automakers can consolidate legacy electronic control unit (ECU) architecture to improve efficiency, manageability and scalability – all while integrating their own custom solutions and AI applications.

“Intel's AI-enhanced SDV SoCs combine the best of AI PC and Intel data center

technologies necessary to support a true software-defined vehicle architecture,” Weast said.

Zeekr First to Bring Intel-powered GenAI Experience to Next-Gen EVs

Geely’s Zeekr brand will be the first OEM to use Intel’s new family of SDV SoCs. Andy An, president of Geely Holding Group and CEO of Zeekr Company Limited, explained how forward-compatibility on Intel systems combined with Intel AI acceleration will allow Zeekr to continually scale and upgrade services to enable next-gen experiences customers demand, such as generative AI-based voice assistants.

Open Standards Key to Industry Success

To fuel a faster, smoother transition to EVs and a sustainable SDV, Intel and SAE International announced a committee to deliver an automotive standard for Vehicle Platform Power Management (J3311). Intel will chair the committee.

Inspired by proven-in-use power management techniques from the PC industry’s ACPI standard, the new SAE standard will accelerate progress by adopting and enhancing [advanced power management concepts](#) from the PC industry, helping all EVs become more energy-efficient and sustainable.

The standards committee currently includes industry representation from Stellantis, HERE, and Monolithic Power Solutions (MPS). The committee is open to additional industry participation, with the goal of delivering the first draft standard within 12 to 18 months.

Intel Commits to Open Automotive Chiplet Platform

Intel also announced its intent to work with R&D hub imec to ensure Intel’s advanced chiplet packaging technologies meet the strict quality and reliability requirements necessary for automotive use cases.

The move underscores a commitment to be the first automotive supplier to support the integration of third-party chiplets into its automotive products. This gives OEMs the freedom and choice to incorporate a custom chiplet into an Intel roadmap product at a fraction of the cost of a fully custom SoC. The ability to mix and match chiplets further eliminates the risk of vendor lock-in and fosters a more scalable software-defined architecture.

About Intel

Intel (Nasdaq: INTC) is an industry leader, creating world-changing technology that enables global progress and enriches lives. Inspired by Moore’s Law, we continuously work to advance the design and manufacturing of semiconductors to help address our customers’ greatest challenges. By embedding intelligence in the cloud, network, edge and every kind of computing device, we unleash the potential of data to transform business and society for the better. To learn more about Intel’s innovations, go to newsroom.intel.com and intel.com.

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