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# Bosch and Qualcomm expand collaboration to deliver scalable ADAS and digital cockpit platforms

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**The partnership now covers cost-optimized vehicle computers using Snapdragon Ride and Ride Flex SoCs**

*Source: Getty Images*

Bosch and Qualcomm Technologies have announced an expansion of their strategic partnership, moving beyond vehicle computers for cockpit solutions to include advanced driver assistance systems, with the aim of scaling intelligent vehicle technology to meet growing consumer demand for automated, connected and highly personalized vehicles. The companies also marked a milestone in their collaboration, stating that Bosch has developed and delivered more than 10 million vehicle computers based on Qualcomm Technologies' Snapdragon Cockpit Platforms for the global automotive market.

Christoph Hartung, member of the Bosch Mobility business sector board, chief technology officer for Systems, Software and Services, and president of the division Cross-Domain Computing Solutions of Bosch, emphasized that combining compute technology with Bosch's system integration expertise enables automakers to meet rising demand for personalized, safe and comfortable driving experiences, and highlighted Bosch's role in providing robust, high-performance computing platforms for software-defined vehicles. Nakul Duggal, executive vice president and group general manager, Automotive, Industrial and Embedded IoT, and Robotics of Qualcomm Technologies, said that the collaboration spans the full spectrum of vehicle compute, from high-performance cockpit systems to scalable automated driving solutions and centralized vehicle architectures powered by Snapdragon Digital Chassis automotive platforms, and noted that expanding into production-ready ADAS platforms is intended to help automakers deploy advanced driver assistance more efficiently with a path to centralized compute.

Building on this development, Bosch and Qualcomm Technologies are extending their collaboration through new ADAS production programs that use Bosch's cost-optimized vehicle computer architecture powered by the Snapdragon Ride platform to support practical and scalable ADAS deployments. The collaboration includes purpose-built combined cockpit and ADAS platforms that support mixed-criticality applications delivered on a single system-on-chip (SoC) using Snapdragon Ride Flex SoCs, aligned with automakers' software-defined vehicle strategies. At the core of these programs is the Bosch ADAS integration platform, described as a scalable, modular vehicle computer designed for ADAS functions, with high bandwidth, computing power and memory management, adherence to strict safety and security standards, sensor fusion for a precise 360° environment model, and the ability to run complex algorithms for safe, dynamic vehicle behavior even at high speeds.

Bosch and Qualcomm Technologies' joint approach is presented as delivering scalable, cost-optimized vehicle computers with ADAS solutions that have secured multiple global customer design wins in the East Asian market. These efforts aim to give automakers flexibility and a migration path to centralized computing architectures using a small number of powerful vehicle computers instead of many control units. Bosch's vehicle computers powered by the scalable Snapdragon Ride Platforms support configurations ranging from entry-level ADAS, such as speed and distance regulation or lane keeping, to advanced automated driving systems, with the first vehicles from these business wins expected on the road in 2028. The companies also highlighted the possibility of consolidating ADAS and cockpit solutions onto a single platform for greater flexibility and reduced architectural complexity, using Snapdragon Ride Flex to enable consolidation of cockpit and ADAS functions onto a single safety-certifiable SoC, reducing system complexity, power consumption and cost, and supporting a path toward centralized compute architectures. Bosch's cockpit and ADAS

integration platform combines assisted and automated driving functions with infotainment such as personalized navigation and voice assistance in a single high-performance computer.

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