Press release

RTI to Advance Automotive Connectivity Capabilities on Renesas' R-Car SoCs

RTI Joins the R-Car Consortium, Expanding its ASIL D Safety-Certified Connext Drive Connectivity Framework to Automated Driving and ADAS Applications

SUNNYVALE (USA)/London, June 7, 2022 – Real-Time Innovations (RTI), the largest software framework company for autonomous systems, today announced its collaboration with Renesas, a premier supplier of advanced semiconductor solutions for the automotive industry. RTI Connext Drive®, the ISO-26262-certified communications framework for autonomous and electric vehicles, runs on Renesas System-on-Chips (SoC), providing OEMs with a trusted development platform. Connext Drive is available for system architects building their vehicle designs on top of R-Car platforms.

RTI also announced it was selected to join the Renesas R-Car Consortium, which brings together technology leaders working to develop solutions for the Connected Car, ADAS, and next-generation E/E architecture markets. Connext Drive provides a data-centric connectivity framework that integrates all the components of a distributed system with in-vehicle high-performance compute, addressing the connectivity and continuous software updates necessary for OEMs and suppliers to develop next-generation ADAS systems. The R-Car Software Development Kit (SDK) provides a complete software platform in a single package that enables quicker and easier software development and validation for smart cameras and automated driving applications used in passenger, commercial, and off-road vehicles.

Safety is a critical factor in developing next-generation vehicles. As part of RTI's commitment to safety, RTI recently obtained the highest safety level Connext Drive ASIL D certification on the Renesas R-Car SoCs. Connext Drive enables automotive developers to leverage a next-generation zonal E/E architecture through a real-time, scalable, and safety-certifiable platform that connects the entire system from safety domain to backend, across all ecosystems.

"RTI's safety-certified, scalable framework for ADAS and E/E vehicle architectures complements Renesas' robust hardware solution offerings. Renesas invited RTI to join the R-Car Consortium to provide our customers with the capability to design their future-proof vehicles with RTI's ASIL D certified software running on R-Car SoCs," said Yusuke Kawasaki, Director, Easy To Start Department, Automotive Digital Products Marketing Division at Renesas. "We look forward to our collaboration with RTI."

"In the rapidly evolving and complex world of electric and autonomous driving solutions, OEMs and their suppliers are turning to software-defined architectures to accommodate the evolving requirements on the road to autonomy," said Pedro López Estepa, Automotive Market Development Director at RTI. "The future of mobility requires a more flexible, software-defined vehicle architecture to accommodate the unprecedented real-time information flow both within and off the vehicle. Using Connext Drive with the advanced SoCs from Renesas, we can provide our customers with the technology that enables ADAS and Automated Driving application through a framework that delivers safety with high performance, scalability, and reduces risk."

Picture (source: RTI): iStock-624085678

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About RTI (www.rti.com)**:**
Real-Time Innovations (RTI) is the largest software framework company for autonomous systems. RTI Connext® is the world's leading architecture for developing intelligent distributed systems. Uniquely, Connext shares data directly, connecting AI algorithms to real-time networks of devices to build autonomous systems.

RTI is the best in the world at ensuring our customers' success in deploying production systems. With over 1,800 designs, RTI software runs over 250 autonomous vehicle programs, controls the largest power plants in North America, coordinates combat management on U.S. Navy ships, drives a new generation of medical robotics, enables flying cars, and provides 24/7 intelligence for hospital and emergency medicine. RTI runs a smarter world.

RTI is the leading vendor of products compliant with the Object Management Group® (OMG®) Data Distribution Service (DDS™) standard. RTI is privately held and headquartered in Sunnyvale, California with regional offices in Colorado, Spain and Singapore.

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