**News Release**

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**Renesas and BlackBerry Deliver R-Car Based Development Environment Integrating Virtualization, Functional Safety, and Security**

Companies Expand Partnership To Enable Leading-Edge Automotive Systems

**Düsseldorf, October 23, 2018** –Renesas Electronics Corporation (TSE: 6723), a premier supplier of advanced semiconductor solutions and BlackBerry Limited (NYSE: BB; TSX: BB), today announced they are expanding their partnership to offer an integrated virtualization, functional safety and secure development environment for the Renesas R-Car system-on-chip (SoC) devices. Using BlackBerry’s QNX software, it was developed as part of the companies’ ongoing strategic relationship to advance autonomous and connected driving technology.

Available today, the new development environment is an expansion of Renesas’ [software package](https://www.renesas.com/jp/en/about/press-center/news/2017/news20170404.html) lineup for the R-Car automotive computing platform. It allows automotive cockpit system designers to quickly develop advanced cockpit systems and improve the user experience.

The development environment features both the high reliability and rich graphics functions required for integrated cockpit systems. It is based on the Renesas R-Car family, and features [BlackBerry's QNX Software Development Platform 7.0](http://blackberry.qnx.com/en/sdp7) and QNX Hypervisor 2.0 virtualization software. It also provides access to the extensive set of software products developed by BlackBerry, allowing designers to leverage the multimedia and HMI-related software for cockpit graphics systems development.

The development environment takes full advantage of the virtualization functions available in Renesas R-Car devices. This contributes to building functionally safe digital cockpit systems by isolating functions such as cluster and navigation, thereby ensuring that a fault in one area cannot corrupt another. The QNX Hypervisor 2.0 allows disparate guest operating systems such as Android and Linux to execute independently on a single R-Car device.

"We are very proud to build upon our long-standing relationship with Renesas to provide a leading safety-certified development environment solution for the Renesas R-Car system-on-chip (SoC) devices with BlackBerry QNX software,” said **John Wall, Senior Vice President and Head of QNX at BlackBerry.** “Together, BlackBerry and Renesas are enabling our customers to rapidly introduce safe and secure, high-performance cockpit systems.”

"The combination of BlackBerry and Renesas technology is used in many volume production programs globally. This speaks directly to the quality of the relationship between our companies,” said **Masayasu Yoshida, Senior Director of Automotive Technical Customer Engagement Division at Renesas.** “BlackBerry QNX software is always highly reliable. For Renesas, a company that strives to provide safe and secure solutions, BlackBerry is the best possible partner and we plan to continue our joint development efforts moving forward."

The demand for highly reliable, fully integrated hardware and software is rapidly increasing in markets like China, where there is a need for the fastest possible development velocity in connected transportation. Moving forward, Renesas and BlackBerry will continue to accelerate their development of integrated cockpit systems and connected car systems, while strengthening their joint efforts for Advanced Driver Assistance Systems (ADAS) and full-scale Electronic Control Unit (ECU) integration.

**About Renesas Electronics Corporation**

Renesas Electronics Corporation ([TSE: 6723](http://www.jpx.co.jp/english/)) delivers trusted embedded design innovation with complete semiconductor solutions that enable billions of connected, intelligent devices to enhance the way people work and live—securely and safely. A [global](https://www.renesas.com/en-hq/about/company/profile/global.html) leader in microcontrollers, analog, power, SoC products and integrated platforms, Renesas provides the expertise, quality, and comprehensive solutions for a broad range of Automotive, Industrial, Home Electronics, Office Automation and Information Communication Technology applications to help shape a limitless future. Learn more at [renesas.com](http://www.renesas.com/).

**About BlackBerry**

BlackBerry is an enterprise software and services company focused on securing and managing IoT endpoints. The company does this with BlackBerry® Secure™, an end-to-end Enterprise of Things platform, comprised of its enterprise communication and collaboration software and safety-certified embedded solutions. Based in Waterloo, Ontario, the company was founded in 1984 and operates in North America, Europe, Asia, Australia, Middle East, Latin America and Africa. The Company trades under the ticker symbol “BB” on the Toronto Stock Exchange and New York Stock Exchange. For more information, visit [www.BlackBerry.com](http://www.blackberry.com/).

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