

Renesas ultimate RX CPU core with peripheral driver library (RPDL)

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In 2010 worldwide embedded system designers are working approximately 40% on projects from scratch. More than 50% of the projects require the introduction of a new processor. One of the most challenging aspects of such an introduction is the set up of the peripherals, which are becoming more and more complex in order to load off the burden from the CPU.

Meanwhile typically several hundreds of special function registers are explained on more than 1000 pages of the device hardware manual.

However developers would rather like to focus on the "real" challenges of their project.

To handle quick prototyping and simple migration several peripheral driver tools have been introduced by many semiconductor suppliers and tool vendors.

Renesas Electronics launched its new ultimate RX CPU core last year with now several variants on the market. This is accompanied by a peripheral driver library (RPDL), which is topic of this presentation.

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