New Product Announcement

Renesas S5D3 Synergy MCUs, Now at Mouser Electronics, Deliver Advanced Security for Industrial IoT

March 14, 2019 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the S5D3 Synergy™ Microcontroller Group from Renesas Electronics. Providing a new tier to the established S5 microcontroller series, the S5D3 microcontrollers are built on a highly efficient 40nm process, offering enhanced security, wide connectivity, and software support. The entry-level microcontrollers target a broad range of Internet of Things (IoT), industrial, building automation, smart metering, and home and office equipment with capacitive touch human-machine interfaces (HMIs).

The Renesas S5D3 Synergy microcontrollers, available from Mouser Electronics, incorporate a 120 MHz high Arm® Cortex®-M4 core with floating point unit, plus 512 Kbytes of flash and 256 Kbytes of SRAM. The S5D3 devices integrate a secure cryptographic engine (SCE7) with key protection that safeguards the microcontroller boot code and IoT endpoint device communication with a root of trust, eliminating the need for external security functions and reducing BOM cost. The microcontrollers are software- and pin-compatible with other Renesas Synergy microcontrollers, sharing a common set of peripherals and facilitating design scalability and efficient platform-based product development.

The S5D3 microcontrollers feature two 12-bit analog-to-digital converters (ADCs), a 2-channel 12-bit digital-to-analog converter (DAC), high-speed 6-channel comparator, temperature sensor, and a 6-channel programmable gain amplifier (PGA). The devices also offer a scalable set of 13 independent 32-bit general-purpose timers, capacitive touch sensing unit, and communications interfaces such as USB, CAN, I²C, SPI, SDHI, and SSI.

The Renesas Synergy Platform provides developers with immediate access to a complete embedded platform, starting with an application programming interface (API) to leverage a full software framework that is built around the best-in-class Express Logic X-Ware™. This software framework, the Synergy Software Package (SSP), relieves developers from creating and maintaining low-level software repeatedly for each of their embedded projects.

To learn more, visit www.mouser.com/renesas-s5d3-mcus.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Renesas Electronics

Renesas Electronics is a semiconductor company with an outstanding portfolio of global market-leading products. Renesas has the technology and capabilities to deliver almost everything required in an age focusing on human needs, including security technologies, miniaturization and power-saving technologies, networking, and interface technologies. Renesas aims to stay one step ahead and to be the true intelligent chip solution provider — the world leader in its field

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