New Product Announcement

Renesas' RA6M4 MCUs, Now at Mouser, Offer Enhanced Security for IoT and Industrial Applications

November 9, 2020 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the new RA6M4 32-bit microcontrollers from Renesas Electronics. Uniting exceptional connectivity, security, and performance, the RA6M4 microcontrollers speed the development of edge and endpoint Internet of Things (IoT) devices, as well as applications such as metering, HVAC, enhanced premises security, and industrial equipment.

The Renesas RA6M4 microcontrollers, available from Mouser Electronics, are built on a highly efficient 40 nm process and offer exceptional power efficiency with 99 µA/MHz in active mode. The microcontrollers boast a 200 MHz Arm® Cortex®-M33 core based on the Armv8-M architecture with Arm TrustZone® technology, and come with 1 Mbyte of code flash memory, 256 Kbytes of SRAM, and a capacitive touch sensing unit.

The RA6M4 devices are designed to offer outstanding security capabilities, including an integrated security cryptography module with several accelerators, power analysis resistance, and tamper detection. The microcontrollers are supported by Renesas' Flexible Software Package (FSP), which enables rapid implementation of complex security and connectivity functions by allowing customers to reuse legacy code and combine it with software from other Arm partners. The FSP also offers tools to increase efficiency, accelerating the development process for projects targeting the RA6M4 microcontrollers.

Mouser also stocks the RA6M4 evaluation kit, which offers native pin access through four 40-pin male headers, as well as access to Ethernet connectivity, 64 Mbytes of external Octo-SPI flash, and 32 Mbytes of external Quad-SPI flash.

To learn more, visit https://www.mouser.com/new/renesas/renesas-ra6m4-arm-mcus/.

As a global authorized distributor, Mouser offers the world's widest selection of the newest semiconductors and electronic components — in stock and ready to ship. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each of its manufacturer partners. To help speed customers' designs, Mouser's website hosts an extensive library of technical resources, including a Technical Resource Center, along with product data sheets, supplier-specific reference designs, application notes, technical design information, engineering tools and other helpful information.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an authorized semiconductor and electronic component distributor focused on New Product Introductions from its leading manufacturer partners. Serving the global electronic design engineer and buyer community, the global distributor's website, mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 1,100 manufacturer brands. Mouser offers 27 support locations worldwide to provide best-in-class customer service in local language, currency and time zone. The distributor ships to over 630,000 customers in 223 countries/territories from its 1 million-square-foot, state-of-the-art distribution facilities in the Dallas, Texas, metro area. For more information, visit www.mouser.com.

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