

New Product Announcement

Mouser Electronics Now Shipping Renesas Electronics Ultra-Low-Power RA4M2 Microcontrollers for IoT

March 10, 2021 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking [RA4M2](#) microcontrollers from Renesas Electronics. The RA4M2 Group expands the RA4 Series microcontrollers, delivering an exceptional combination of very low active power consumption, high performance, and enhanced security features that positions them as ideal solutions for [industrial](#) and [Internet of Things](#) (IoT) applications.

The [Renesas RA4M2](#) microcontrollers, available from Mouser Electronics, are built on a high-performance 100 MHz Arm® Cortex®-M33 core based on Armv8-M architecture, with Arm TrustZone® technology and Renesas' Secure Crypto Engine. The Secure Crypto Engine incorporates multiple symmetric and asymmetric cryptography accelerators, advanced key management, security lifecycle management, power analysis resistance, and tamper detection.

The RA4M2 microcontrollers feature an operating current of just 80 µA/MHz in active mode, as well as a [low standby current](#) of 0.7 mA and extremely fast wakeup time from standby of 30 µs. With operating frequencies up to 100 MHz, the RA4M2 microcontrollers are ideal for high-performance, low-power applications such as industrial and IoT edge devices as well as metering, HVAC, and enhanced premises [security](#).

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 RA4M2 microcontrollers.

To learn more, visit <https://www.mouser.com/new/reneas/reneas-ra4m2-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](https://www.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 <https://www.mouser.com/>.

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