

New Product Announcement

NXP's i.MX RT Crossover Processors, Now at Mouser, Offer High-Performance Processing with MCU Ease-of-Use

November 15, 2017 – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now offering the [i.MX RT](#) crossover processors from [NXP Semiconductors](#). Combining the high performance of a processor with the real-time functionality and ease-of-use of a microcontroller, the highly integrated i.MX RT series supports a wide range of applications, including [industrial](#) and home automation, [Internet of Things](#) (IoT) gateways, [robotics](#), [motor control](#), and [audio subsystems](#).

The [NXP i.MX RT](#) crossover processors, available from Mouser Electronics, are based on an Arm® Cortex®-M7 core that operates at 600 MHz, more than 50 percent faster than other Cortex-M7 products. The processors tout a robust feature set that includes advanced multimedia capabilities, high-speed extensive external memory interfaces, and a healthy assortment of both wired and wireless connectivity options. The iMX RT series processors operate on half the run mode power of other Cortex-M7 products, enabling longer battery life.

In addition to speed and integrated processing power, the iMX RT series also supports greater design flexibility for engineers through an extensive array of external memory interfaces (include NAND, eMMC, QuadSPI NOR Flash, and Parallel NOR Flash) and connectivity options as well as security features to protect applications from outside threats. The iMX RT series supports wired Ethernet and USB, plus Wi-Fi, classic *Bluetooth*® and Bluetooth low energy, ZigBee and Thread. To keep applications secure, the processors provide 128-bit AES cryptography and true random number generation, high assurance booting, and on-the-fly QSPI flash decryption. The high-speed interfaces, combined with the on-the-fly decryption capabilities, enable designers to have secure external data storage without the need for embedded flash.

Microcontroller designers can maintain their current tool chain (such as MCUXpresso, IAR, and Keil) without worrying about the time, cost or complexity of adding Linux software development to their design cycle. The devices also enable rapid prototyping and development with NXP's FreeRTOS, SDK, Arm mbed™ and the global Arm ecosystem, which provide software libraries and online tools and support.

Engineers can further accelerate development with the [NXP MIMXRT1050-EVK](#) evaluation kit, which features an Arduino interface, 6-axis accelerometer and magnetometer, SD card interface, and parallel LCD and camera connectors.

To learn more, visit <https://www.mouser.com/nxp-imx-rt/>.

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 4 million products from over 600 manufacturers. Mouser offers 22 support locations around the world to provide best-in-class customer service and ships globally to over 550,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <https://www.mouser.com/>.

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