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New Product Announcement

Now at Mouser: NXP's LPC55S6x Arm Cortex-M33-based MCUs for Secure Edge Applications

April 22, 2019 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now offering NXP Semiconductors' LPC55S6x microcontrollers, the first members of the NXP LPC5500 series. Offering impressive levels of security, processing efficiency, and functionality, the NXP LPC55S6x microcontrollers feature dual Arm® Cortex®-M33 cores and Arm TrustZone® technology for industrial, building automation, Internet of Things (IoT) edge computing, diagnostic equipment, and consumer electronics applications.

The NXP LPC55S6x microcontrollers, available from Mouser Electronics, are based on the Armv8-M architecture and a low-power 40nm embedded flash process. The devices feature advanced security features, including SRAM-based Physical Unclonable Function (PUF) root of trust and provisioning, as well as asset protection with Arm TrustZone-M. The microcontrollers also offer real-time execution from encrypted images.

The NXP LPC55S6x microcontrollers feature an integrated power management unit to lower power consumption, and achieve up to 32 µA/MHz efficiency at the 96 MHz core clock frequency. The devices boast a dedicated DSP hardware accelerator leveraging the co-processor extensions available in the Armv8-M architecture and extending the processing capability of the CPU while maintaining full ecosystem and toolchain compatibility. The microcontrollers offer enhanced real-time parallelism, using an autonomous programmable logic unit (PLU) for offloading and execution of user-defined tasks.

Mouser is also offering the LPCXpresso55S69 development board, which includes a high-performance onboard debug probe, audio subsystem, and accelerometer for evaluating the dual-core LPC5569 microcontroller. The board is fully supported by the MCUXpresso suite of tools, which provides device drivers, middleware, and examples to allow rapid development, plus configuration tools and an optional free integrated development environment (IDE).

To learn more about the LPC55S6x microcontrollers, part of the LPC5500 series, visit www.mouser.com/nxp-lpc5500.

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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.

Trademarks

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