New Product Announcement

Now at Mouser: STMicroelectronics' STM32H7 MCUs with Arm PSA Protection for Connected Devices

July 16, 2018 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking STM32H7 series microcontrollers from STMicroelectronics (ST). The high-performing STM32H7 microcontrollers are designed with the same security concepts as the Arm® Platform Security Architecture (PSA) framework and combine these principles with STM32-family enhanced security features and services to boost protection for connected smart devices.

ST's STM32H7 microcontrollers, available from Mouser Electronics, are based on a 32-bit Arm Cortex®-M7 core with double-precision floating point unit (FPU), up to 2 Mbytes of flash, and 1 Mbyte of RAM. The microcontrollers integrate hardware-based security features including a True Random-Number Generator (TRNG) and advanced cryptographic processor, which will simplify protecting embedded applications and global Internet of Things (IoT) systems against attacks.

To enable secure firmware loading, security keys and software services on the microcontroller permit OEMs to provide manufacturing partners with already encrypted firmware, eliminating the possibility of intercepting, copying, or tampering with the code. This enables programming and authenticating the device to establish the root-of-trust mechanism needed for the device to be connected to the end-user's network and remotely updated over the air (OTA) to apply security patches or feature upgrades throughout the lifetime of the device.

The devices offer improved performance through the Chrom-ART Accelerator™ for fast and efficient graphical user-interfaces, a hardware JPEG codec that allows high-speed image manipulation, highly efficient Direct Memory Access (DMA) controllers, and the L1 cache allowing full-speed interaction with off-chip memory. Multiple power domains allow engineers to minimize the energy consumed by their applications, while plentiful inputs and outputs (I/Os), communication interfaces, and audio and analog peripherals can address a wide range of entertainment, remote-monitoring, and control applications.

To learn more, visit www.mouser.com/stm-stm32h7-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 700 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.

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