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## STMicroelectronics Announces Most Advanced 32bit Secure Microcontroller

- *Third-generation ST33 family offers industry's largest embedded Flash memory, fastest clock speed, and fastest embedded cryptographic accelerators;*
- *Enables new payment, Internet of Things, wearable, M2M, and V2X applications.*

**Geneva, November 17, 2015 – STMicroelectronics (NYSE: STM)**, a global semiconductor leader serving customers across the spectrum of electronics applications, has introduced the first member of the third generation of its industry-leading ST33 series of secure microcontrollers based on the 32-bit ARM® SecurCore® SC300™ processor.

The [ST33J2M0](#) raises the bar in secure microcontrollers by providing the industry's largest (2MByte) Flash program memory, nearly doubling the memory available in a secure microcontroller. Fully manufactured in ST's advanced 40nm process technology for cost efficiency, the secure microcontroller includes the highest performance and integrated crypto-accelerators that together with the industry's fastest clock speed in a secure micro, enable the highest performance for fast application execution. It also features a new hardware architecture with strong and multiple fault-protection mechanisms covering the CPU, memories, and buses to facilitate the development of highly secure software.

The latest ST33 family addresses the growing need for secure applications including embedded Secure Element (eSE), SWP (Single Wire Protocol) SIMs for NFC applications, and embedded UICC (Universal Integrated Circuit Card). These features are critical to protect transactions in areas as diverse as payment applications, the Internet of Things (IoT) and wearable consumer devices, to Machine-to-Machine communications in "Industry 4.0" factory automation as well as V2X and in-car communication applications.

"ST's third-generation secure microcontroller is a highly versatile platform designed for multiple secure applications targeting a broad number of electronics devices," said Marie-France Florentin, Group Vice President, General Manager, Secure Microcontroller Division, STMicroelectronics. "The combination of unmatched

performance, the industry's largest memory capacity, and the highest security makes the ST33J2M0 an ideal solution to support a wide variety of sensitive applications, including those in banking, transport, authentication, biometry, M2M, automotive and more—all from a single device.”

The ST33J2M0 features multiple hardware accelerators for advanced cryptographic functions. The EDES peripheral provides a secure DES (Data Encryption Standard) algorithm implementation, while the NESCRIPT crypto-processor efficiently supports the public key algorithm. The AES peripheral ensures secure and fast AES algorithm implementation.

Samples of the [ST33J2M0](#) are available as wafers or housed in VQFN and WLCSP packages. Please contact your ST sales office for pricing options and sample requests.

### **About STMicroelectronics**

ST is a global semiconductor leader delivering intelligent and energy-efficient products and solutions that power the electronics at the heart of everyday life. ST's products are found everywhere today, and together with our customers, we are enabling smarter driving and smarter factories, cities and homes, along with the next generation of mobile and Internet of Things devices. By getting more from technology to get more from life, ST stands for life.augmented.

In 2014, the Company's net revenues were \$7.40 billion, serving more than 100,000 customers worldwide. Further information can be found at [www.st.com](http://www.st.com).

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