

Quantum-Resistant Public Key Security for Low-Resource IoT Devices

SecureRF at IDtechEx Co-located Shows: Sensors USA / Internet of Things Applications USA

Who: Louis Parks, CEO, SecureRF Corporation, a provider of quantum-resistant security for low-resource Internet of Things devices. Mr. Parks is available for interviews at the show or by telephone before or after the event.

What: SecureRF will offer a free quantum-resistant embedded Security Development Kit for developers targeting the ARM's most constrained processor cores (ARM® Cortex® -M0 and M3).

SecureRF also will demonstrate the latest versions of its LIME™ Tags, a line of secure IoT sensors, tags, smartcards and connectivity platforms. These sensors, tags, and smartcards have integrated authentication and security features and offer a modular design that allows users to easily and quickly assemble the solution they need. Together with its smartphone apps, secure cloud dashboard, software development kits, and tools, LIME Tags enable rapid deployment and deliver critical security and privacy.

When: November 16 and 17, 2016

Where: Booth O33 at IDtechEx Co-located Shows - Sensors USA / Internet of Things Applications USA to be held in Santa Clara Convention Center, Santa Clara, CA.

Why: Security for connected devices is gaining in importance as consumers and business buyers become more aware of the risks of unprotected or minimally secure IoT and IIoT “things.” This issue made headlines in the recent hack of tens of millions of devices including security cameras and home automation devices that led to the DDos attack on Dyn, impacting much of the Internet in the eastern U.S. The challenge for designers of such low-price products is the lack of solutions that meet the need for security and performance requirements of devices built with limited computing resources.

Designers evaluating conventional public key security systems for use on low-resource platforms often find that run times are too long, or memory and storage requirements are too high. SecureRF's Ironwood™ and WalnutDSA™ provide equivalent security to solutions like ECDH and ECDSA but with footprints as much as 30 percent smaller, using up to 144 times less energy, and execution speeds over 60 times faster.

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