Codasip and SecureRF Demonstrate RISC-V compliant
Codix IP for Secure IoT Applications

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Codasip a leading provider of Application Specific Instruction-set Processor (ASIP) IP and SecureRF, a leading provider of security solutions for IoT devices, announced they will be demonstrating a RISC-V based processor that has been optimized to run IoT security applications at DAC (Austin, TX June 6-8, Booth #1113) and the RISC-V Workshop (Cambridge, MA July 12-13).

The solution is based on Codasip's Codix-Bk core (RISC-V compliant) with extensions and optimizations to allow single cycle processing of key aspects of SecureRF' security algorithms, without requiring changes to the existing software infrastructure. The optimized core is fully supported by a standards-based SDK including comprehensive debug, profiling, and emulation models.

"We are excited to be able to showcase the results of this collaboration with SecureRF." said Karel Masarik, CEO Codasip. "Leveraging the unique strengths of our Codix IP, and the extensibility inherent in the RISC-V instruction-set architecture (ISA), allowed us, with very little effort, to extend RISC-V and deliver significant performance and power improvements. This is just the beginning of what we believe will be a rich collaboration to deliver secure RISC-V based IP for IoT Security."

Security is critical for emerging IoT applications, and as more and more functions are integrated into devices the processing demands increase significantly. Leveraging an ASIP allows for significant improvements in processor performance without increasing complexity of the software or hardware platform, while at the same time drastically reducing the power requirements.

"Our collaboration with Codasip has enabled us to leverage ASIP technology to do in man-days what would otherwise take man-months or years." said Louis Parks, CEO SecureRF. "We believe IoT security should not depend on the hardware platform you run on, as such we want to make our solution available to the largest audience possible. Codasip's unique technology and support for the RISC-V standard means we get the best of both worlds – the power and performance we need, with an ISA supported by many companies and applications."

Originally developed at University of California, Berkeley - RISC-V is an emerging standard for instruction set architecture (ISA) allowing a rich ecosystem to develop. The standard is now managed by the RISC-V Foundation, and is supported by many industry leading companies with Codasip as one of its founding members. The extensibility of the ISA and the ability to implement the underlying micro-architecture independently from the ISA, make it an exciting standard for new IoT products, and for ASIP technology.

The demonstration utilizes the MicroSemi SmartFusion2 platform.

About Codasip
Codasip delivers leading-edge technology that enables adoption of Application Specific Instruction-set Processors (ASIPs). ASIP's utilize dedicated instructions/architecture to accelerate software and are at the heart of applications that require very high performance with low power. Codasip's unique technology makes ASIP adoption as simple and easy as standard embedded processor cores. Formed in 2006 and headquartered in Brno, Czech Republic, Codasip currently has offices in the US and Europe. More information on Codasip's products and services is available at www.codasip.com.
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About SecureRF
SecureRF Corporation – Securing the Internet of Things® – provides security solutions for passive, battery-assisted, and active tags, wireless sensors, and embedded platforms including FPGAs, Microcontrollers, and ASICs based on a breakthrough in Public-Key Cryptography that is computationally efficient, yet highly secure. Applications include non-traditional payment systems, high-value supply chain management, cold chain management, and anti-counterfeiting applications in the pharmaceutical, consumer, defense, and homeland security sectors. Under the Veridify® banner, the company delivers a comprehensive cloud-based IoT solution for quickly and easily giving devices and products a secure place in the Internet of Things. For more information on securing the Internet of Things, please contact info@SecureRF.com. More information about SecureRF can be found at www.SecureRF.com.
SecureRF's insights on security can be found on its blog at www.SecureRF.com/blog.

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