



Atmel Uses ANSYS Simulation Solutions To Power The Internet Of Things

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PITTSBURGH, March 3, 2015 /PRNewswire/ -- [Atmel® Corporation](#) is using engineering simulation solutions from [ANSYS](#) (NASDAQ: ANSS) to model, analyze and optimize its broad Internet of Things (IoT) product portfolio from scalable embedded microcontrollers and microprocessors to wireless connectivity gateways.



Power consumption, data security and communication standards compliance are critical design requirements for IoT applications. Striking an optimal balance among such concerns as power efficiency, antenna integration performance, security and cost is a key design challenge faced by engineers developing devices that enable the proliferation of IoT.

Atmel's industry-leading SmartConnect WINC1500 low-power WiFi 2.4GHz IEEE 802.11 b/g/n system-on-chip (SoC) and the latest ARM® Cortex®-M0+ microcontroller (MCU) deliver extreme low power, compact size and comprehensive connectivity. The Atmel design teams around the world leveraged ANSYS® HFSS™, ANSYS RedHawk™ and ANSYS Totem™ to design and validate these complex SoCs and platforms used across multiple IoT application segments. ANSYS simulation solutions help enable Atmel to meet stringent power/performance requirements, ensure reliable operations across a wide range of frequencies and deliver products with tight time-to-market constraints.

"As a leading provider of IoT solutions, we are committed to delivering the most comprehensive and highly integrated IoT solutions with world-class accuracy, performance, reliability and ease-of-use," said Marc Rougee, vice president of strategic initiatives, Atmel Corporation. "ANSYS engineering simulation tools give us the confidence that the design of our products will meet our customers' power and performance targets to enable next-generation secure and connected designs for IoT."

"IoT is creating tremendous growth opportunities for the entire electronics ecosystem, from semiconductor manufacturing to systems integration to applications development. ANSYS is excited to be a partner to the Atmel design teams as they develop innovative technologies that fuel machine-to-machine communication and the industrial Internet," said Aweek Sarkar, ANSYS vice president.

About ANSYS, Inc.

ANSYS brings clarity and insight to customers' most complex design challenges through fast, accurate and reliable engineering simulation. Our technology enables organizations — no matter their industry — to predict with confidence that their products will thrive in the real world. Customers trust our software to help ensure product integrity and drive business success through innovation. Founded in 1970, ANSYS employs over 2700 professionals, many of them experts in engineering fields such as finite element analysis, computational fluid dynamics, electronics and electromagnetics, embedded software, system simulation and design optimization. Headquartered south of Pittsburgh, U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

ANSYS also has a strong presence on the major social channels. To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

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