NXP Announces ARM Cortex-M4-based MCU with Industry's Largest Embedded SRAM Memory, Optimized for Portable Devices

March 14, 2017

NXP's Kinetis K27/K28 family of ARM-based microcontrollers provide 1MB of embedded SRAM plus 2MB of Flash memory with lower system power to enable longer battery life and richer graphics in portable display applications

NUREMBERG, Germany, March 14, 2017 (GLOBE NEWSWIRE) -- **(Embedded World 2017)** – NXP Semiconductors N.V. (NASDAQ:NXPI) announced today its new Kinetis K27/K28 family of ARM® Cortex®-M4-based microcontrollers (MCUs) that uniquely address the growing requirements of portable display applications. The latest 150 MHz Kinetis MCUs enable advanced integration in battery-operated applications, with an increase of up to four times the embedded SRAM offered in current MCUs, and 2MB of Flash memory. Its large memory, coupled with expanded integration capabilities and lower system power enable richer graphics and longer battery life to optimize the user experience in a broad range of use cases.

"Embedded designers can now push the limits of integration to create more competitive products with NXP's new Kinetis K27/K28 MCUs, which makes it possible for them to get the most out of their devices," said Geoff Lees, senior vice president and general manager of the microcontroller business line at NXP. "Our new high-performance microcontrollers enable enhanced user interfaces and high-end customized apps while extending battery life, all of which are important when it comes to product differentiation for IoT devices, smart home products, wearables and industrial portable devices."

The 1MB embedded SRAM enables lower system power and larger graphics buffer sizes to deliver both power efficiency and high performance; this enables users to install more software applications and apps on wearables, and other portable graphic display systems. The advanced integration also reduces system board footprint addressing the need for portable devices to have small form factors.

The latest Kinetis K27/K28 MCUs support a broad set of peripherals, including low-power peripherals to optimize battery life, dual USB controllers for high speed data transfer, external memory interfaces for additional program and data storage, and analog or other peripherals to process sensors in connected IoT devices.

The Kinetis K27/K28 is supported by a FRDM-K28F low-cost development platform that includes on-board discrete power management, accelerometer, QuadSPI serial flash, USB high-speed connector and full-speed USB OpenSDA. The FRDM-K28F board also supports optional add-on boards to add USB-Type C and Bluetooth® low energy (BLE) connectivity, as well as a 5" LCD display board with capacitive touch from MikroElektronika for use cases requiring rich graphics. Dr. Djordje Marinkovic, MikroElektronika Chief Business Development Officer, said, "As a valued NXP partner, our TFT Proto 5" CAPACITIVE board extension brings to life a sophisticated visual display enabled by NXP's new Kinetis microcontrollers."

Additionally, NXP provides a comprehensive software tools through its MCUXpresso SDK that provides software enablement for NXP Microcontrollers, including system startup, peripheral drivers, USB and connectivity stacks, middleware, and real-time operating system (RTOS) kernels.

Availability

The new Kinetis K27/K28 MCU family will be commercially available in April 2017. For more information, visit www.nxp.com/Kinetis/Kseries.

See NXP Technologies in action at Embedded World 2017 in Nuremberg, Germany

Visit NXP during Embedded World in Hall 4A – 220 at the Exhibition Centre Nuremberg. Interact with innovative demonstrations for embedded solutions enabling the IoT from smart cars to smart industry.

For more information about NXP news at Embedded World, please visit www.nxp.com/EW17/mediacenter.

About NXP Semiconductors

NXP Semiconductors N.V. (NASDAQ:NXPI) enables secure connections and infrastructure for a smarter world, advancing solutions that make lives easier, better and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the secure connected vehicle, end-to-end security & privacy and smart connected solutions markets. Built on more than 60 years of combined experience and expertise, the company has 31,000 employees in more than 33 countries and posted revenue of $9.5 billion in 2016. Find out more at www.nxp.com.

NXP, the NXP logo and Kinetis are trademarks of NXP B.V. All other product or service names are the property of their respective owners. ARM and Cortex are trademarks or registered trademarks of ARM Ltd or its subsidiaries in the EU and/or elsewhere. All rights reserved. © 2017 NXP B.V.

For more information, please contact:

Americas

Tate Tran
Tel: +1 408-802-0602
Email: tate.tran@nxp.com

Europe
Martijn van der Linden
Tel: +31 6 10914896
Email: martijn.van.der.linden@nxp.com

Greater China / Asia
Esther Chang
Tel: +886 2 8170 9990
Email: esther.chang@nxp.com

NXP Semiconductors Netherlands B.V.