



NXP Introduces Breakthrough Innovations in Industry-leading, LPC Microcontroller Family for Low-power, Entry-level IoT Applications

June 21, 2017

Delivering unmatched performance, new LPC84x MCU family offers groundbreaking features, 10x higher performance, 3x times more power savings and 50 percent smaller code-size than 8- or 16-bit microcontrollers

SAN JOSE, Calif., June 21, 2017 (GLOBE NEWSWIRE) -- NXP Semiconductors N.V. (NASDAQ:NXPI), the leader in mass market microcontrollers (MCU), today introduced the LPC84x family, the latest addition to its rapidly expanding LPC800 series of 32-bit ARM® 30 MHz Cortex®-M0+ based microcontrollers. The family, designed to balance power, performance and price, addresses the growing demand to simplify and speed development — enabling smarter next-generation designs to be cost- and power-efficient.

“We’re extremely excited to be ramping the LPC84x family into production together with our broad base of customers,” said Geoff Lees, senior vice president and general manager of the microcontroller business at NXP. “This new family further extends LPC800’s unique innovative features over aging, proprietary 8-bit MCUs.”

Advancing its power-efficient integration and providing increased flexibility to developers, the LPC84x family builds on its innovation with a unique way to configure the device without CPU intervention. Upon power-up, its fast access initialization memory (FAIM) allows the clocks of the LPC84x microcontroller to be started in a low frequency mode, keeping startup current consumption to a minimum. Additionally, its input/output (IO) ports can come up immediately and in its desired configuration, eliminating any potential termination issues with attached devices, such as MOSFETs.

Within the LPC84x family, the LPC845 offers an additional flexible capacitive touch-sensing solution, which can operate in sleep and deep sleep modes, allowing for very low power performance. The LPC845 solution has been designed to handle up to nine capacitive buttons in different sensor configurations — such as a slider, rotary or a button matrix — along with supporting software libraries and tools to support additional features including auto-calibration for best performance in noisy or wet environments, reducing false triggering. Evaluation kits and software packages available starting in Q3 2017.

Building on NXP’s global success of the LPC800 series, and keeping consistent with its proven, industry-leading innovations, the LPC84x family includes its powerful 32-bit State-Configurable Timer with PWM, advanced DMA, autonomous serial interfaces and patented IO switch matrix, where any peripheral function can be assigned to any of the 56 GPIO, enabling low-cost PCBs.

NXP’s new LPC84x MCU family offers developers a path to 64 KB of integrated flash memory and 16 KB SRAM, with a 12-bit ADC, dual 10-bit DAC, and a selectable output free-running oscillator (FRO) — further expanding the LPC800 series of feature-rich, entry-level MCUs at aggressive 8-bit pricing. Customers benefit from the family’s greater levels of integration for monitoring, data collection, sensing, real-time control and graphic interface capabilities, enabling basic control and connectivity tasks across a broad range of consumer, industrial and emerging IoT applications.

Pricing and Availability

Available in a scalable family of packages, including LQFP64, LQFP48, HVQFN48 and HVQFN33, the LPC84x MCU family of devices, along with supporting peripheral drivers, example software and tools, including the LPCXpresso845-MAX development board (OM13097), are available beginning June 20, 2017.

For pricing, please contact a local NXP sales office, and visit nxp.com/LPC84x for additional information of the LPC84x MCU family.

LPC Microcontrollers Demonstration

NXP will share its latest features and developments for the LPC portfolio at NXP.FTE.Connects in San Jose, California, this week. The LPC84x MCU family as well as the broadened LPC546xx MCU family will be showcased in the technology lab. In addition, the company will host technical sessions to help the developer community learn more.

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.

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For more information, please contact:

Americas
Tate Tran
Tel: +1 408 802 0602

Email: tate.tran@nxp.com

Greater China/Asia

Esther Chang

Tel: +886 2 8170 9990

Email: esther.chan@nxp.com

Europe

Martijn van der Linden

Phone: +31 6 1091 4896

Email: martijn.van.der.linden@nxp.com



NXP Semiconductors Netherlands B.V.