



NXP Expands Industry-Leading Power Efficient LPC54000 Series with Flashless Microcontroller Family

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LPC540xx microcontroller family expands on the LPC54000 series portfolio with advanced security and portfolio scalability for the broad market

NXP Semiconductors N.V. today expands its LPC portfolio with flashless LPC540xx microcontroller (MCU) family. Uniquely designed to deliver power efficiency, this new family addresses the growing requirements of our connected smart world with advanced feature integration and security capabilities.

Offering a dynamic range in performance, from very low frequencies to 180 MHz, consumer and industrial IoT applications can be optimized to complete complex tasks faster and efficiently with active currents as low as 100 uA/MHz.

Powered by the Arm® Cortex®-M4 core, the LPC540xx MCU family offers 360 KB of SRAM, unlimited memory extensibility with a quad SPI Flash interface with execution in place, along with feature rich integration including Ethernet control, HS USB with integrated physical transceiver, a TFT LCD controller and dual CAN FD controllers.

For security-optimized embedded design, with on-chip AES engine, embedded key storage, secure boot mechanism for root of trust, the LPC54S0xx devices offer developers with mechanisms to authenticate a boot image, accelerate processing for data encryption or decryption, and advanced data integrity and protection.

LPC540xx and LPC54S0xx devices are supported by MCUXpresso*, a cohesive set development tools, including a software development kit (SDK) and configuration tools, as well as complete integrated development environment support from IAR® and Arm Keil®, and our own Eclipse-based MCUXpresso IDE.

Pricing and Availability

Offering a cost-effective and scalable - pin, peripheral and software – expansion to the LPC546xx MCU family, the flashless LPC540xx devices, along with the LPCXpresso54018 development board, are sampling today and ramping mass production in January 2018; security variants expected in Q2 2018.

Pricing is available through your local distributor or NXP sales office.

For more information, please visit www.nxp.com/LPC540xx.

**MCUXpresso SDK and IDE will be supported in January 2018*