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Microcontroller Series Enables Longer Battery Life in IoT Applications Without Sacrificing Security and Reliability

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) today announced its ADuCM302x series of ultra-low power microcontrollers designed to enable longer battery life and lower operating costs in IoT applications without sacrificing security and reliability functions. Consuming less than 38uA/MHz of current in active mode and less than 750nA in standby mode, the ADuCM302x microcontrollers enable longer operation between battery replacements or recharging, providing a better end-user experience and lower maintenance cost. This efficiency can also reduce costs for device makers by decreasing the number and size of batteries required, and enables new applications where battery replacement is impractical. While alternatives on the market often sacrifice key functionality to achieve efficiency benchmarks, the ADuCM302x series maintains a full suite of reliability and safety functions. Serving as the brain of a connected solution, these microcontrollers represent Analog Devices' focus on delivering system-level solutions for the Internet of Things, and enabling intelligent decision-making closer to the sensor. They complement ADI's broad portfolio of compatible sensing and wireless communication technologies, and will be supported by software and hardware development tools to help integrators optimize solutions for their unique application needs.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20160222005164/en/>



- View product page, download data sheet, order samples and evaluation boards: <http://www.analog.com/ADuCM3029.html>
- Learn about ADI's microcontrollers product portfolio:

Microcontroller Series Enables Longer Battery Life in IoT Applications Without Sacrificing Security and Reliability (Photo: Business Wire)

<http://www.analog.com/en/products/processors-dsp/analog-microcontrollers>

- Connect with engineers and ADI product experts on EngineerZone®, an online technical support community: <https://ez.analog.com/community/analog-microcontrollers>

The ADuCM3027 and ADuCM3029 are the initial offerings in the series, differing only in flash memory (128K and 256k respectively). They outperform other general-purpose processors with a high ULPBench™ certified score of 245.5 points as established by the EEMBC ([Embedded Microprocessor Benchmark Consortium](#)), an independent *industry alliance*. The 32-bit ARM® Cortex®-M3 processor is easily configured to achieve the right balance of performance and power while still offering critical security and reliability functions. Faster encryption enabled by a combination of hardware and software protection mechanisms provides read-protection to prevent the device contents from being read by unauthorized users. Additionally, in-circuit write-protection prevents the device from being reprogrammed with unauthorized code. Voltage monitoring in standby-mode and error correction for the flash memory increase reliability by avoiding corruptions which could result in misoperation or system crashes.

ADuCM302x Series Key Features

- | Single supply operation
- | Up to 26 MHz ARM Cortex-M3 processor with MPU
- | Up to 256K bytes of embedded flash memory with ECC
- | Optional 4K cache for lower active power
- | 64K bytes system SRAM with parity
- | Integrated power management with optional buck converter for improved efficiency
- | Automatic time stamping allowing sensor synchronization using Flex RTC

Product Pricing and Availability

Product	Flash Memory Options	Sample Availability	Full Production	Price Each Per 1,000	Packaging
ADuCM3027	128K	Now	July	\$3.00	64 pin LFCSP
ADuCM3027	128K	Now	July	\$3.00	54 ball WLCSP
ADuCM3029	256K	Now	July	\$3.50	64 pin LFCSP
ADuCM3029	256K	Now	July	\$3.50	54 ball WLCSP

Note: The ADuCM3029 EZ-KIT® evaluation hardware is available for \$199.

About Analog Devices

Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital worlds with unmatched technologies that sense, measure and connect.

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