

New Product Announcement

Mouser Now Stocking STMicroelectronics' Ultra-Low-Power STM32L4 Microcontrollers

September 17, 2015 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the new [STM32L4 series 32-bit microcontrollers](#) from [STMicroelectronics](#) (ST). These ultra-low-power STM32L4 32-bit microcontrollers are based on the high-performance ARM® Cortex®-M4 32-bit RISC core operating at a frequency of up to 80MHz. The STM32L4 microcontrollers leverage ST's low power technologies including voltage scaling to balance power consumption with processing demand and include seven low-power management modes to give designers flexibility to optimize power consumption in a broad range of applications.

[STM32L4 series microcontrollers](#), available from Mouser Electronics, are based on the ARM® Cortex®-M4 core with a floating point unit (FPU), which supports all ARM single-precision data-processing instructions and data types. Run current is a low 112µA/MHz. The devices feature ST's Adaptive Real-Time memory Accelerator (ART Accelerator™), which allows zero-wait states out of the 64-bit program flash at a clock speed of 80MHz. This accelerator technology implements an innovative instruction prefetch queue and branch cache resulting in near 100 DMIPS performance.

The STM32L4 devices embed high-speed memories (up to 1 Mbyte of flash memory and up to 128 Kbytes of SRAM), a flexible external memory controller for static memories (for devices with packages of 100 pins and more), a quad SPI flash memories interface, and an extensive range of enhanced I/Os and peripherals connected to two APB buses, two AHB buses, and a 32-bit multi-AHB bus matrix. The devices offer three fast 12-bit analog-to-digital converters (ADCs), two comparators, two operational amplifiers, two digital-to-analog converter (DAC) channels, an internal voltage reference buffer, a low-power RTC, two general-purpose 32-bit timers, two 16-bit PWM timers dedicated to motor control, seven general-purpose 16-bit timers, and two 16-bit low-power timers. The devices support four digital filters for external sigma-delta modulators. Additionally, up to 24 capacitive sensing channels are available. The devices also embed an integrated 8x40 or 4x44 LCD driver with internal step-up converter.

Mouser also stocks a complete range of [STM32L4 evaluation kits](#) including the STM32L4 Discovery Kit (STM32L476G-DISCO), STM32L4 Nucleo board (NUCLEO-L476RG) and STM32L4 Evaluation board (STM32L476G-EVAL). The STM32L4 ecosystem is completed with STM32Cube support for the STM32L4 microcontrollers.

The overall [low power](#) consumption, high performance, and DSP capability of the Cortex-M4 core, smart analog features, and extensive digital connectivity of the new STM32L4 series make these devices ideal for smart connected and [Internet-of-Things](#) (IoT) applications, as well as a wide variety of [industrial](#), [medical](#), and consumer products.

To learn more about the STM32L4 microcontrollers from Mouser, visit <http://www.mouser.com/new/stmicroelectronics/stm-stm32l4-mcu-fpu/>.

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