

## **Silicon Laboratories Expands Industry-Leading Small Form Factor Microcontroller Family; F41x Offers Most Integrated MCU with up to 32 kB Flash, Versatile Voltage Supply and Integrated Peripherals**

AUSTIN, Texas, Mar 06, 2006 (BUSINESS WIRE) -- Silicon Laboratories Inc. (NASDAQ:SLAB) today announced the expansion of its industry-leading family of small form factor, mixed-signal microcontrollers (MCUs) with the introduction of the C8051F41x family. The new MCUs integrate up to 32 kB Flash memory and high-performance analog peripherals, including a SmarTclock with failsafe recovery features, into a compact 5 x 5 mm package. The C8051F41x also offers versatile voltage supply from 2 to 5.25 V with an on-chip programmable voltage regulator and up to 5 V tolerant independent I/O voltage control. The small size of the C8051F41x makes it ideal for portable equipment, instrumentation and measurement devices, consumer medical products and industrial meters.

The C8051F41x features Silicon Laboratories' high-speed, pipelined 50 MIPS 8051 core, 16 to 32 kB Flash memory, 2048 B RAM and versatile voltage range operation. The C8051F41x integrates on-chip peripherals such as a 12-bit 200 ksps analog-to-digital converter, two 12-bit digital-to-analog converters, temperature sensor, programmable voltage reference and comparators. The on-chip voltage regulator may be used to supply power to external ICs in the system making it ideal for legacy systems with high-voltage supplies as well as new battery powered systems that require low-voltage operation. The C8051F41x integrates a two percent accurate precision internal oscillator that eliminates the need for an external crystal or resonator. On-board serial communication peripherals include UART, SMBus™ and SPI™ bus serial ports.

The C8051F41x also includes a SmarTclock, an embedded real-time clock that enables the MCU to automatically detect power supply failures and switch to a battery backup that will allow continued operation of the backup RAM down to 1 V. The SmarTclock can keep time accurately and reliably and detect a clock failure, even when the MCU is sleeping, and alert the CPU so that recovery is possible.

"Silicon Laboratories' new small form factor MCUs leverage our core competency in mixed-signal design to provide customers with industry leading integration and performance," said Derrell Coker, vice president of Silicon Laboratories. "The combination of the increased memory, small size, versatile voltage supply and SmarTclock make the C8051F4x ideal for a number of growing applications including XFP modules, battery-powered portable equipment, instrumentation and measurement devices."

A low cost evaluation kit (C8051F411EK) is available for evaluation of Silicon Laboratories' SmarTclock, versatile voltage supply and software development tools. A reference design kit (VOICE-RECORD-RD) is also available for evaluation of the device's high-performance analog and CPU throughput capability.

The C8051F41x products include on-chip debug circuitry facilitating non-intrusive, full-speed, in-circuit debugging before and after installation without requiring an emulator. Like all Silicon Laboratories' MCU products, the C8051F41x products are also supported with a complete, professional development kit (C8051F410DK) that includes everything required to immediately begin the system design: IDE, target board, cables and power supply.

### Pricing and Availability

The C8051F411/3 comes in 28-pin QFN and C8051F410/2 comes in a 32-pin QFN. Pricing begins at \$2.56 in quantities of 10,000. The professional C8051F410DK development kit is available for \$99, the low cost C8051F411EK is available for a special promotional price of \$29 and the reference design kit is available for \$49. To buy online please visit [www.silabs.com/MCUselector](http://www.silabs.com/MCUselector).

Silicon Laboratories Inc.

Silicon Laboratories Inc. is a leading designer of high-performance, analog-intensive, mixed-signal integrated circuits (ICs) for a broad range of applications. Silicon Laboratories' diverse portfolio of highly integrated, patented solutions is developed by a world-class engineering team with decades of cumulative expertise in cutting-edge mixed-signal design. The company has design, engineering, marketing, sales and applications offices throughout North America, Europe and Asia. For more information about Silicon Laboratories please visit [www.silabs.com](http://www.silabs.com).

Cautionary Language

This press release may contain forward-looking statements based on Silicon Laboratories' current expectations. These forward-looking statements involve risks and uncertainties. A number of important factors could cause actual results to differ materially from those in the forward-looking statements. Silicon Laboratories believes that it is important to communicate the company's future expectations to investors. However, there may be events in the future that Silicon Laboratories is not able to accurately predict or control. For a discussion of these and other factors that could impact Silicon Laboratories' financial results and cause actual results to differ materially from those in the forward-looking statements, please refer to Silicon Laboratories' recent filings with the SEC.

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