Silicon Laboratories Expands USB Microcontroller Product Family; Highly Integrated C8051F34x Family Simplifies Design Process and Speeds Time-to-Market

NUREMBERG, Germany, Feb 13, 2006 (BUSINESS WIRE) -- Silicon Laboratories Inc. (Nasdaq:SLAB), a leader in high-performance, analog-intensive, mixed-signal ICs, today announced the expansion of its USB microcontroller products with solutions for both high-end and cost-sensitive applications, including the addition of the C8051F34x family at the Embedded World tradeshow in Nuremberg, Germany. Silicon Laboratories' new C8051F34x product family meets the demands of applications that require USB connectivity and high-performance analog, high-performance CPU processing and larger memory footprints such as medical diagnostic equipment, point-of-sale (POS) terminals, weigh scales, embedded modems and voice over Internet protocol (VoIP) telephones.

The C8051F34x family includes a high-speed pipelined 8051-compatible MCU core operating up to 48 MIPS, a 10-bit analog-to-digital converter (ADC), up to 64 kB of on-board Flash memory and 5376 bytes of RAM, which includes 1 kB of USB FIFO. The on-chip USB engine includes a control endpoint and six flexible endpoint pipes allowing customers to support multiple USB device types. An enhanced feature set includes SPI, SMBus, external memory interface (EMIF), counters, PWM generators and comparators.

All of Silicon Laboratories' USB MCU products are USB 2.0-compliant supporting both low-speed and full-speed operation and include an on-chip voltage regulator and physical layer transceiver for direct interface to the USB connection without the need for additional components. A rich set of peripheral features such as UARTs, timers and temperature sensors make Silicon Laboratories' complete USB MCU solutions the most comprehensive, highest integrated solutions on the market.

"There is increasing demand for USB solutions that offer higher integration, lower cost and a complimentary tool chain to accelerate product development," said Derrell Coker, vice president of Silicon Laboratories. "With the expansion of our USB product line, we are able to address our customers' full spectrum of requirements."

Silicon Laboratories' USB MCU product line also includes the following:

- C8051F320/1 for mid-range applications such as digital cameras, modems and printers that require high-performance analog but fewer peripheral features.
- C8051F326/7 for cost-sensitive applications such as USB tokens, gaming devices, intelligent cables assemblies, I/O adapters and toys that require single-chip, very small footprint solutions.
- CP210x USB-to-UART bridge that converts data traffic between USB and UART formats for applications such as cellular phones, navigation systems, glucose meters and barcode readers.

Silicon Laboratories offers a unique hardware development platform for each USB MCU product family as well as software development tools that accelerate time-to-market by simplifying the design process and allowing designers to focus on their end product. Software development tools include a full-featured integrated development environment (IDE) with single-cycle hardware breakpoints and configurable watch windows. Host and device source code examples for commonly used drivers and transfer types are included that enable designers to build their system to interface to standard host operating systems without the need for custom driver development.

Another key software tool, USBXpress®, provides the easiest way to achieve "bulk" data transfer. Silicon Laboratories also works with leading partners such as Jungo Ltd. to supply rapid driver development software and National Technical Systems Inc. to accelerate USB compliance testing.

Silicon Laboratories' USB solutions include innovative applications and reference designs that ease the design process by offering all of the technical documentation and technical construction files needed to assist in implementing USB functionality. For more information, please visit www.silabs.com/usb.

Pricing and Availability

Silicon Laboratories' USB MCU products are offered in a variety of packages and price points. The C8051F32x family is available in a 5 x 5 mm 28-pin quad flat no-lead (QFN) package or a 32-pin low profile quad flat package (LQFP). Pricing for the C8051F32x family begins at $1.76 in quantities of 10K. The C8051F34x family is available in a 32-pin LQFP and a 48-pin thin quad flat pack (TQFP). Pricing for the C8051F34x family begins at $3.42 in quantities of 10K. Full production is scheduled

for Q1 2006. For more information, please visit www.silabs.com/mcu.

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.

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, particularly the Form 10-KA filed April 25, 2005 and the 10-Q filed October 24, 2005.

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